

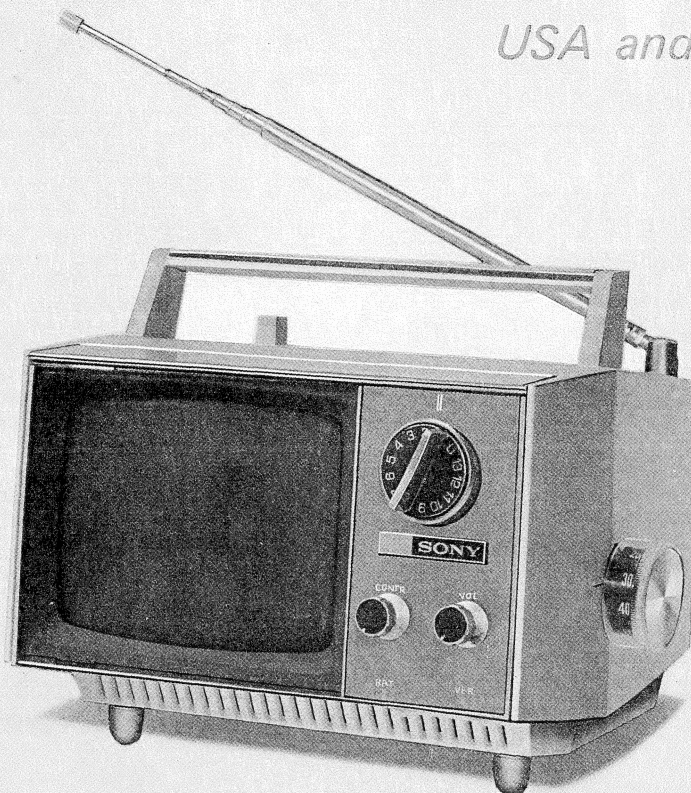


Set using ISO screws

TV-510U

BP-21

USA and CANADA Model



SPECIFICATIONS

TV-signal Standards:	American TV-standard	Sound System:	4.5 MHz intercarrier system Power output stage; OTL system 350 mW Speaker; 2 $\frac{3}{4}$ " (7 cm), 40 ohms
Picture Tube:	5" (measured diagonally), 70° deflection aluminized screen 140CB4	Automatic Control Systems:	Forward agc Single pulse afc
Semiconductors:	23 transistors and 14 diodes	Power Requirements:	AC 117V, 60 Hz DC 12V
Channel Coverage:	VHF; ch. A2-A13 UHF; ch. A14-A83	Power Consumption:	AC 13W (maximum) DC 8.6W (maximum)
Antenna System:	Built-in telescopic antenna Terminals for 75-ohm external antenna	Dimensions:	8 $\frac{3}{4}$ " (W) x 7" (H) x 8 $\frac{7}{8}$ " (D) (223 mm x 178 mm x 225 mm)
Tuner System:	VHF; Disc turret type UHF; Continuous tuning type	Weight:	7 lb 8 oz (3.4 kg)
VIF Circuit:	3 stages with 4 stagger tuned element Picture i-f carrier; 45.75 MHz Sound i-f carrier; 41.25 MHz		

SONY®

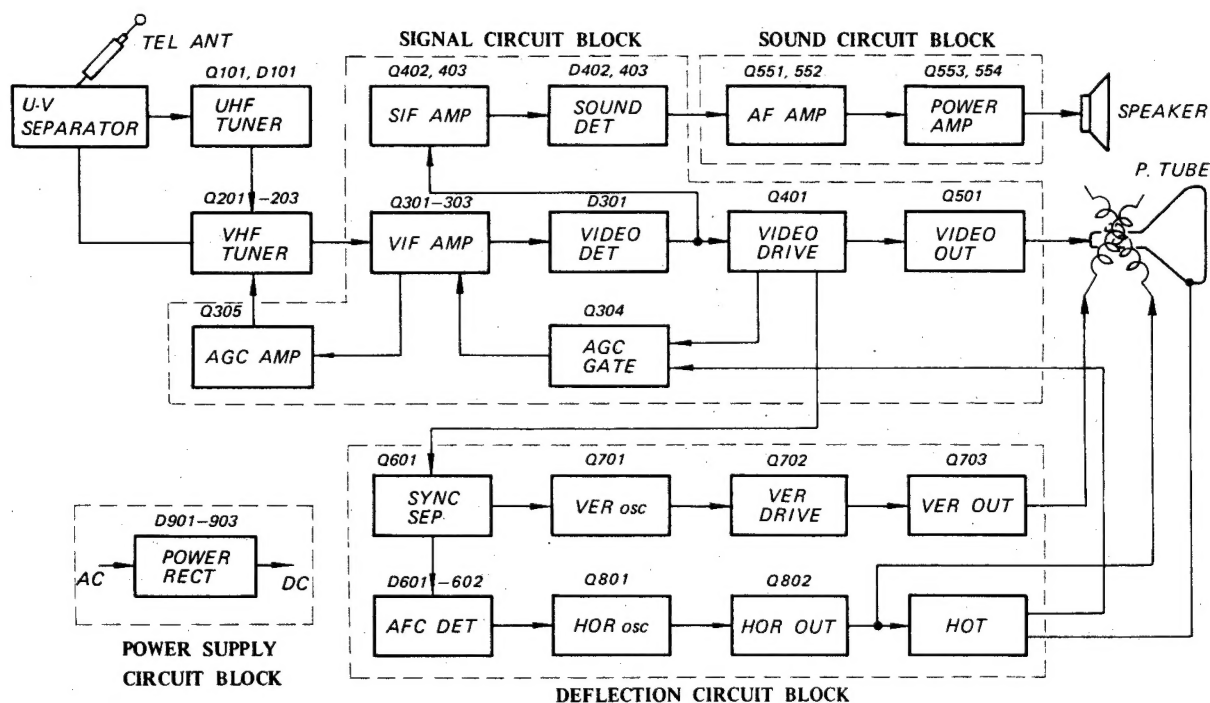
SERVICE MANUAL

TABLE OF CONTENTS

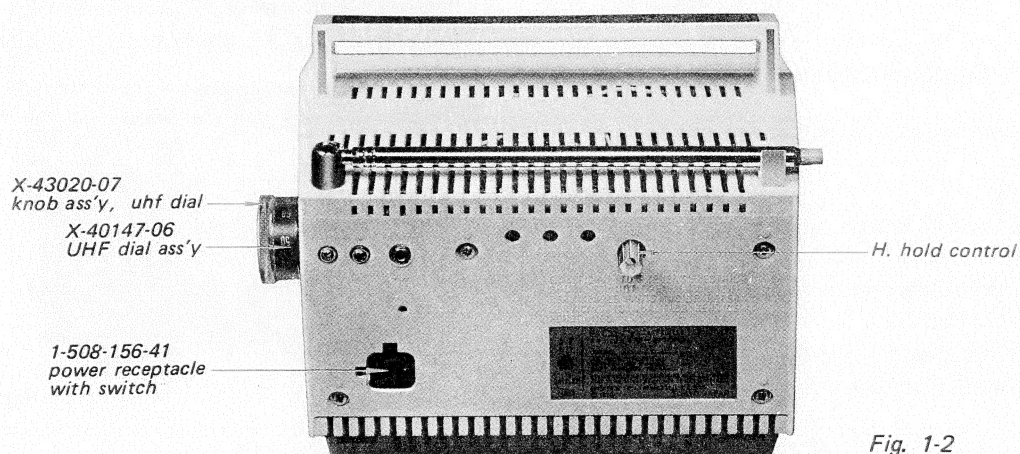
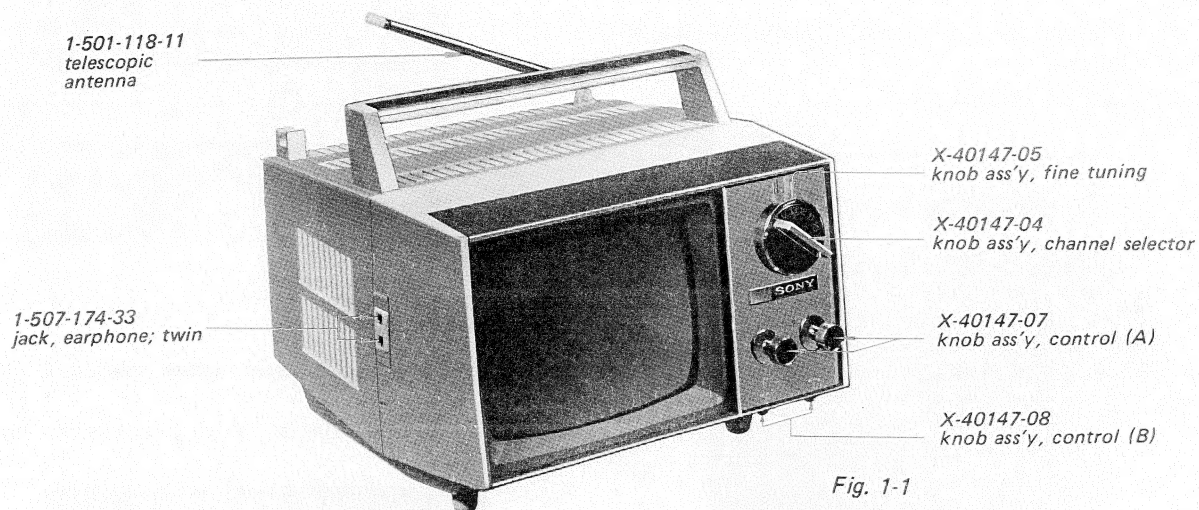
<u>Title</u>	<u>Page</u>	<u>Title</u>	<u>Page</u>
1. OUTLINE		4-4. Power Supply Circuit Board (P)	
1-1. Block Diagram	2	- Component Side -	16
1-2. External View	3	4-5. Sound Circuit Board (S)	
1-3. Internal View	3	- Conductor Side -	17
2. DISASSEMBLY		4-6. Sound Circuit Board (S)	
2-1. Rear Cabinet Removal	4	- Component Side -	17
2-2. Circuit Board Removal	4	4-7. Sound Circuit Board (S)	
2-3. Protector Removal	6	(Schematic Diagram)	18
2-4. Front Cabinet Removal	6	4-8. Signal Circuit Board (BC)	
2-5. Speaker Removal	7	(Schematic Diagram)	19
2-6. High Voltage Block Removal	7	4-9. Signal Circuit Board (BC)	
2-7. Picture Tube Removal	7	- Conductor Side -	21
2-8. Volume and Contrast Controls		4-10. Signal Circuit Board (BC)	
Removal	8	- Component Side -	22
2-9. Vertical Hold and Brightness		4-11. Deflection Circuit Board (EF)	
Controls Removal	8	(Schematic Diagram)	23
2-10. Tuner Block Removal	8	4-12. Deflection Circuit Board (EF)	
3. CIRCUIT ADJUSTMENT		- Conductor Side -	25
3-1. VIF Adjustments	10	4-13. Waveforms	26
3-2. SIF Adjustments	12	4-14. Deflection Circuit Board (EF)	
3-3. Deflection Circuit Adjustments	14	- Component Side -	27
4. SCHEMATIC AND MOUNTING		4-15. Schematic Diagram	29
DIAGRAMS		5. EXPLODED VIEW AND PACKING	
4-1. VHF Tuner (Schematic Diagram)	15	5-1. Exploded View (1)	31
4-2. VHF Tuner (Mounting Diagram)	15	5-2. Exploded View (2)	33
4-3. Power Supply Circuit Board (P)		5-3. Packing	34
- Conductor Side -	16	6. ELECTRICAL PARTS LIST	35
		TV-510U BATTERY PACK BP-21	40

SECTION 1 OUTLINE

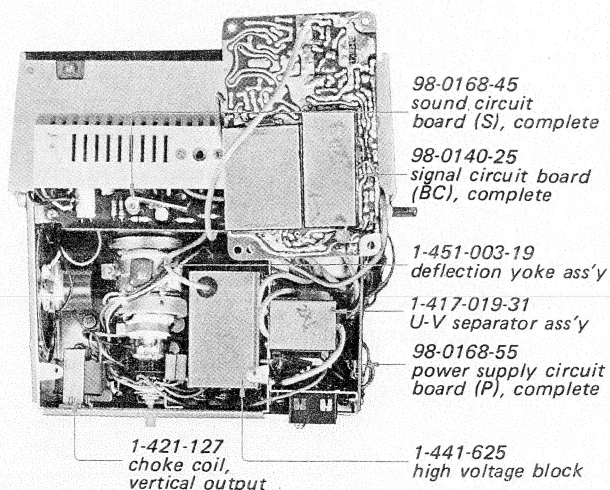
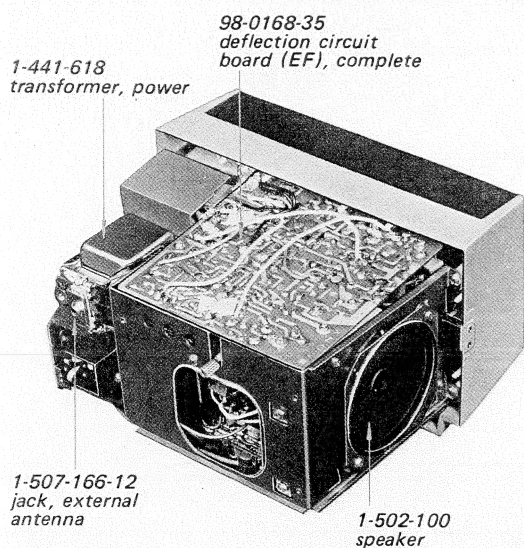
1-1. BLOCK DIAGRAM



1-2. EXTERNAL VIEW



1-3. INTERNAL VIEW



SECTION 2 DISASSEMBLY

2-1. REAR CABINET REMOVAL

1. Remove the five screws labeled A1–A5 in Fig. 2-1.
2. Take off the rear cabinet.

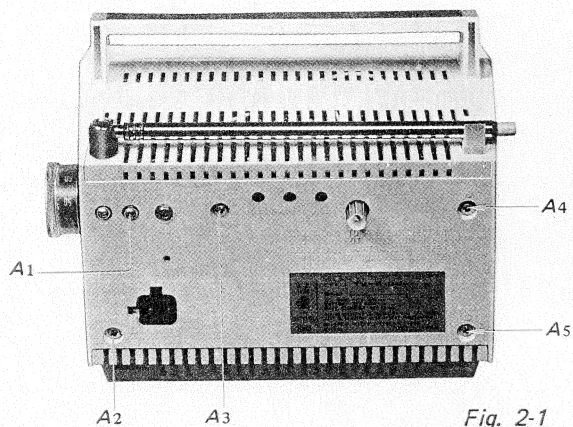


Fig. 2-1

2-2. CIRCUIT BOARD REMOVAL

Remove the rear cabinet to perform the following steps:

Sound Board (S)

1. Remove the two screws labeled B1 and B2 in Fig. 2-2.
2. Pull out the S-board in the direction shown by the arrow in Fig. 2-2.
3. Unsolder the four PVC leads and one shielded cable illustrated in Fig. 2-3.

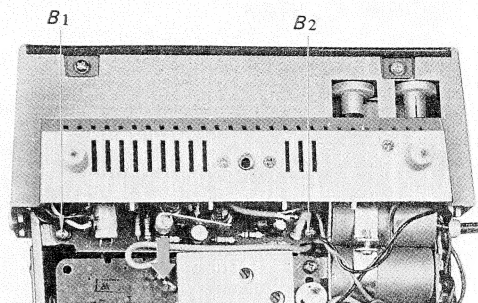


Fig. 2-2

Signal Board (BC)

1. Remove the three screws labeled C1–C3 in Fig. 2-4.
2. Take off the BC board as shown in Fig. 2-4.

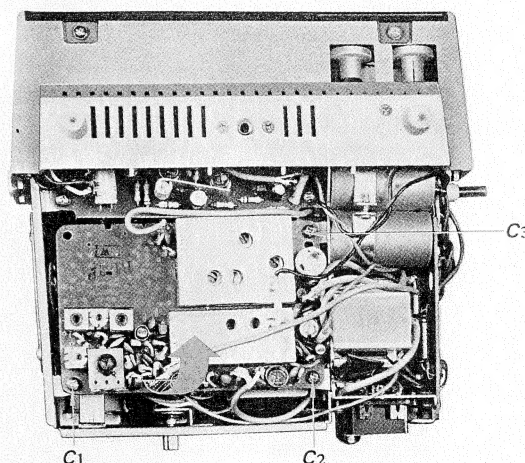


Fig. 2-4

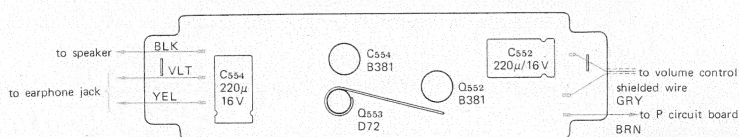


Fig. 2-3

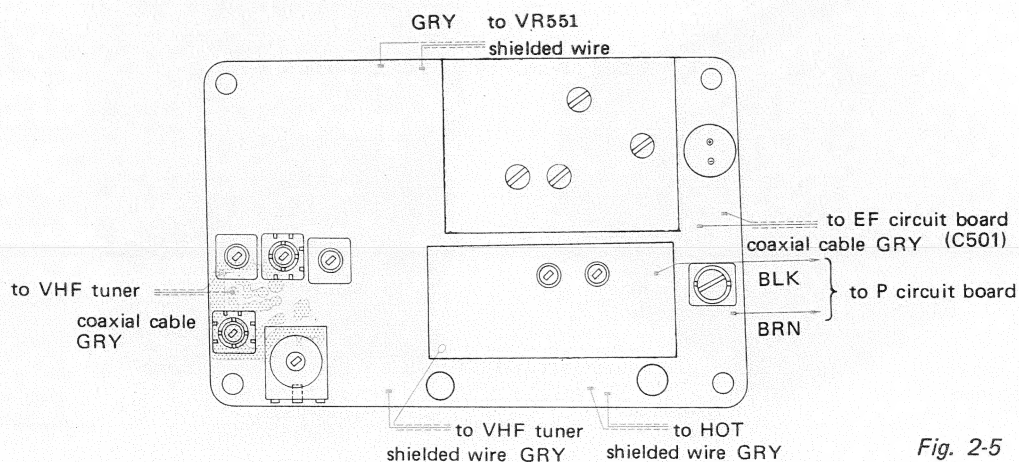


Fig. 2-5

2-3. PROTECTOR REMOVAL

1. Pull off four front-panel knobs as shown in Fig. 2-10.
2. Remove the two screws labeled H1 and H2 in Fig. 2-10.
3. Remove the protector.

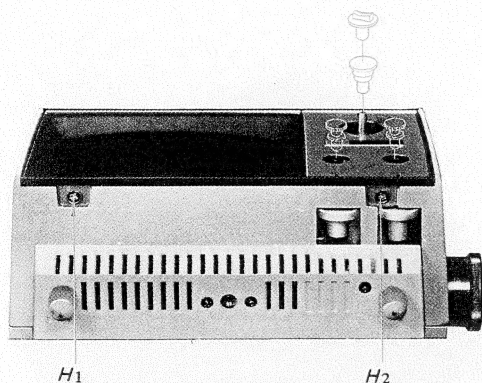


Fig. 2-10

4. Remove the four screws labeled L1–L4 in Figs. 2-13 and 2-14.
5. Remove the S board.
6. Pull off the picture tube socket shown in Fig. 2-15.
7. Remove the anode cap shown in Fig. 2-15.
8. Unsolder the two grounding-wires shown in Fig. 2-15.
9. Remove the front cabinet with picture tube from the chassis carefully.

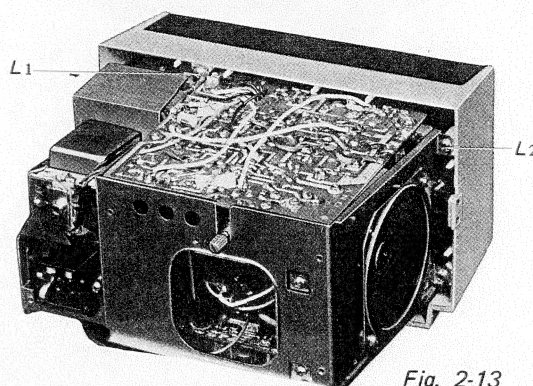


Fig. 2-13

2-4. FRONT CABINET REMOVAL

1. Remove the rear cabinet and protector.
2. Remove the screw labeled J1 in Fig. 2-11.
3. Remove the two screws labeled K1 and K2 in Fig. 2-12.

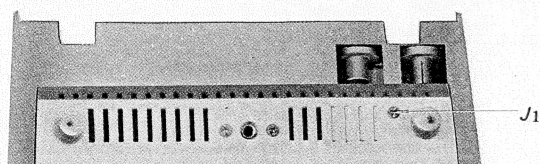


Fig. 2-11

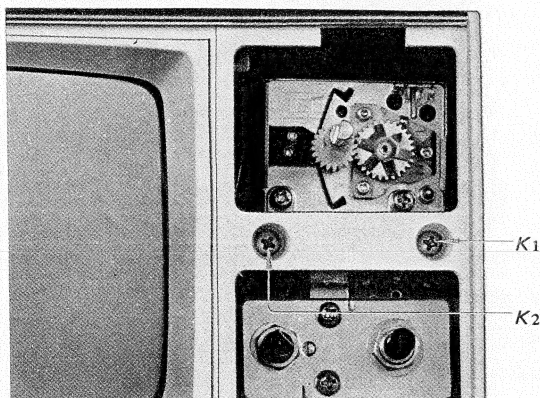


Fig. 2-12

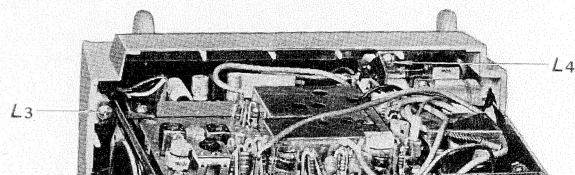


Fig. 2-14

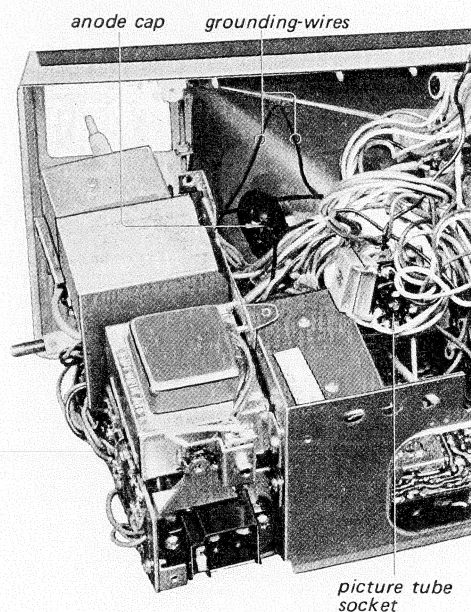


Fig. 2-15

2-5. SPEAKER REMOVAL

1. Remove the rear cabinet.
2. Remove the two screws labeled M1 and M2 in Fig. 2-16.
3. Unsolder the two leads on the speaker terminals.
4. Replace the speaker carefully.

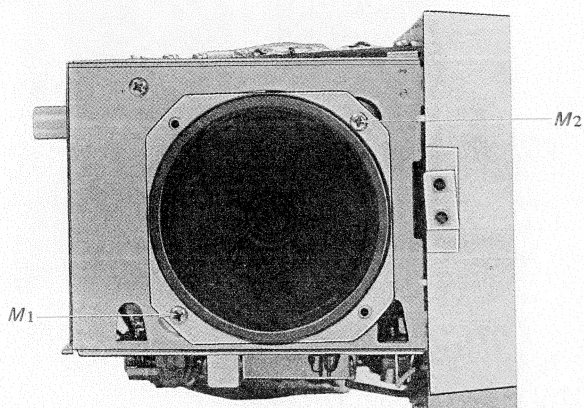


Fig. 2-16

2-6. HIGH VOLTAGE BLOCK REMOVAL

1. Remove the rear cabinet and EF board.
2. Remove the two screws labeled N1 and N2 in Fig. 2-17.

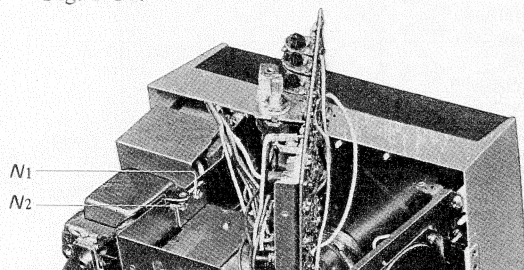


Fig. 2-17

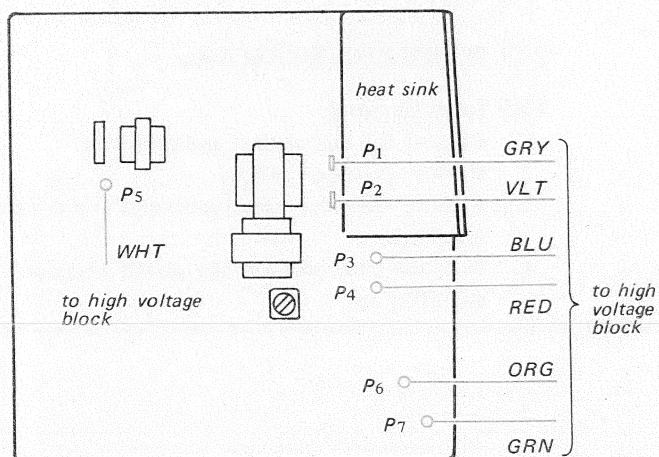


Fig. 2-18

3. Unsolder the four lead-wires on the EF board labeled P1–P4 in Fig. 2-18.
4. Pull out the three pin-plugs on the EF board labeled P5–P7 in Fig. 2-18.

2-7. PICTURE TUBE REMOVAL

1. Remove the rear cabinet and protector.
2. Remove the BC circuit board. (See Procedure 2-2).
3. Loosen a screw labeled Q1 in Fig. 2-19.
4. Remove the front cabinet.
5. Pull out the deflection yoke.
6. Remove the four screws labeled R1–R4 in Fig. 2-20.
7. Loosen a screw labeled S1 in Fig. 2-20.

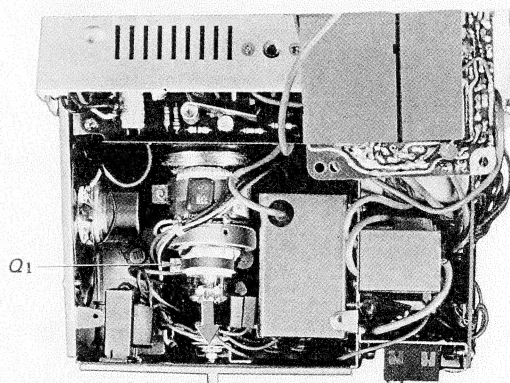


Fig. 2-19

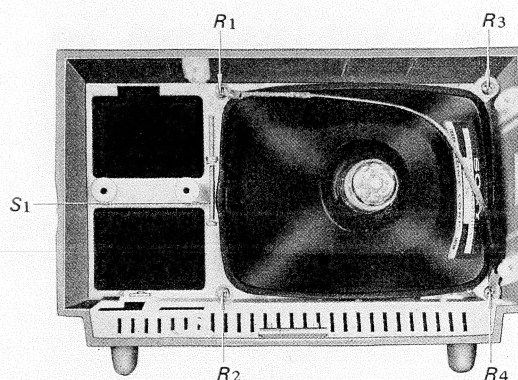


Fig. 2-20

2-8. VOLUME AND CONTRAST CONTROLS REMOVAL

1. Remove the protector.
2. Remove the two screws labeled T1 and T2 in Fig. 2-21.
3. Pull out the volume and contrast controls as shown in Fig. 2-23.

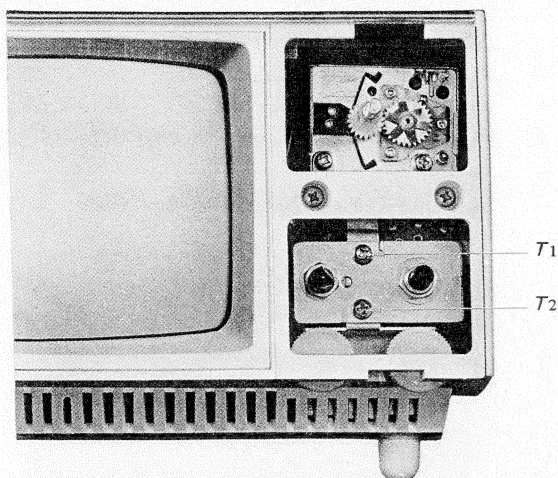


Fig. 2-21

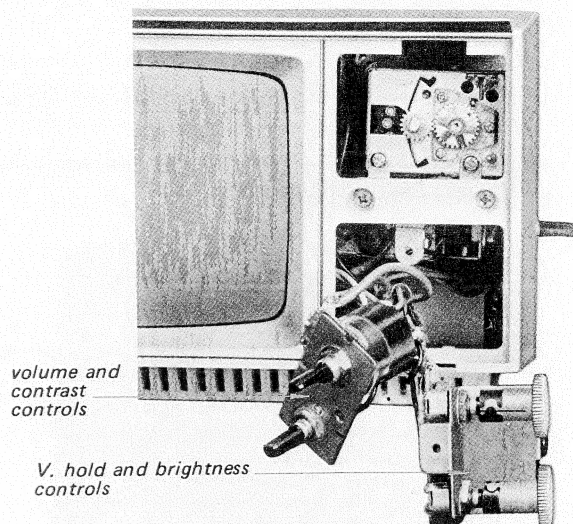


Fig. 2-23

2-9. VERTICAL HOLD AND BRIGHTNESS CONTROLS REMOVAL

1. Remove the protector.
2. Remove the volume and contrast controls.
3. Remove a screw labeled U1 in Fig. 2-22.
4. Pull out the vertical hold and brightness controls as shown in Fig. 2-23.

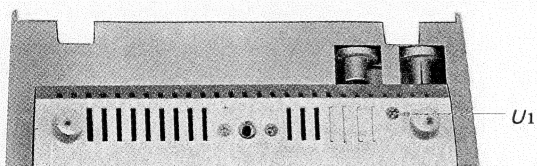


Fig. 2-22

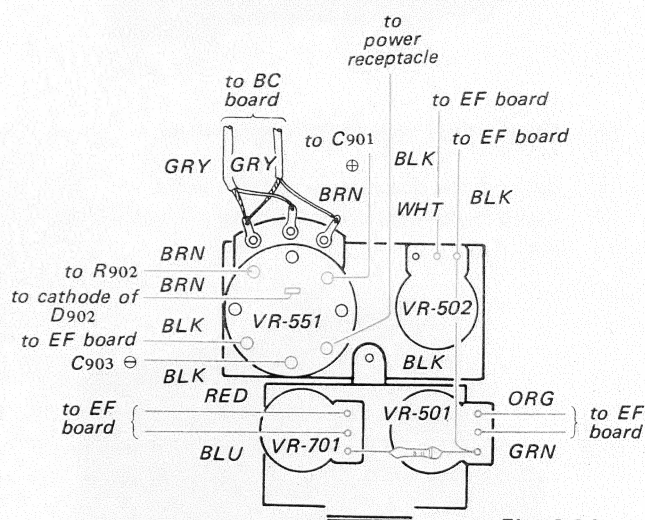


Fig. 2-24

2-10. TUNER BLOCK REMOVAL

VHF Tuner Removal

1. Remove the rear cabinet and protector.
2. Remove the front cabinet.
3. Remove the two screws labeled V1 and V2 in Fig. 2-25.
4. Push the tuner toward the power transformer and lift it up.

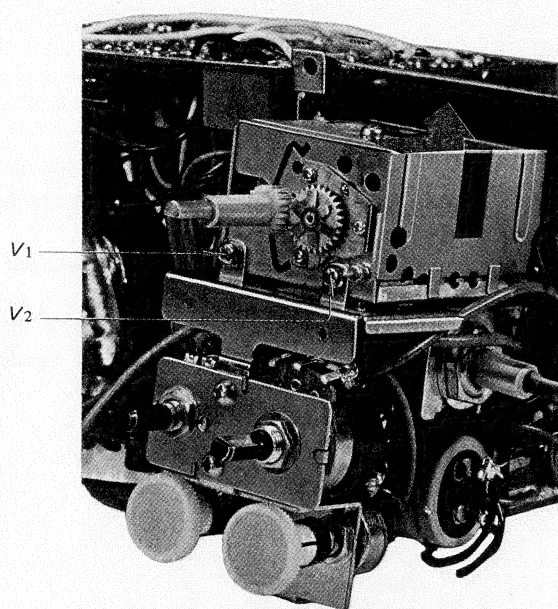


Fig. 2-25

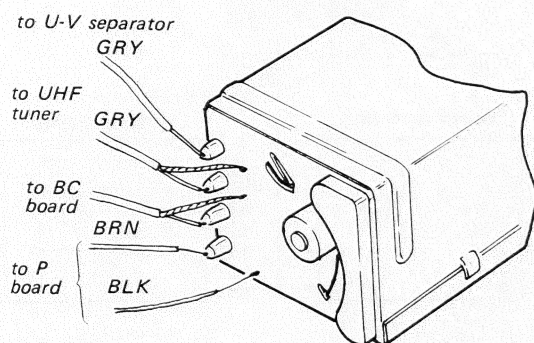


Fig. 2-26

UHF Tuner Removal

1. Remove the rear cabinet and protector.
2. Remove the front cabinet and VHF tuner.
3. Remove the two screws labeled W1 and W2 in Fig. 2-27.
4. Loosen a nut labeled X1 in Fig. 2-28.
5. Take off the UHF tuner carefully.

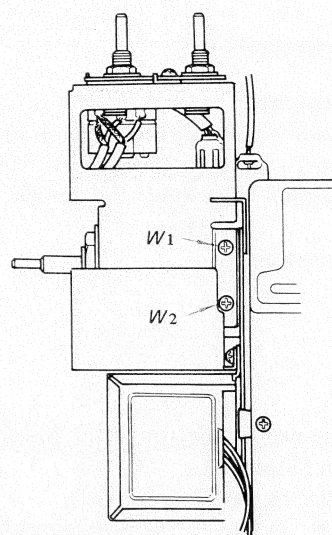


Fig. 2-27

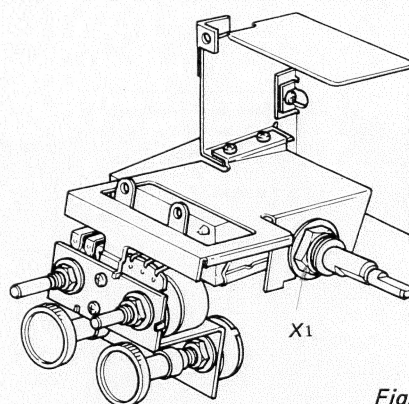


Fig. 2-28

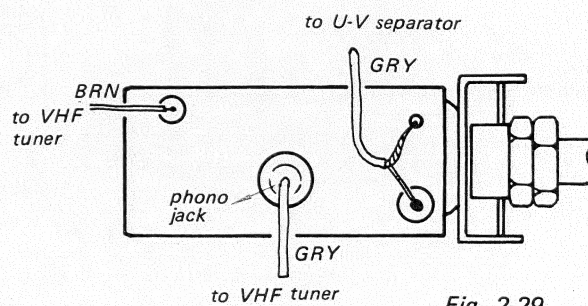


Fig. 2-29

SECTION 3

CIRCUIT ADJUSTMENT

3-1. VIF ADJUSTMENTS

Equipment Required:

Sweep generator — covering the range of 39 ~ 48 MHz

Signal generator — covering the range of 33 ~ 35 MHz

Marker generator — covering the range of 39 ~ 48 MHz

Rheostat — 250 k ohm

Oscilloscope

VOM

Preparations:

1. Set the channel selector to the highest inactive channel in the area.
2. Unsolder the keying-pulse lead.
3. Connect a scope to the VIF output terminals through a noise filter consisting of a 10-k ohm resistor and a 300-pF capacitor as shown in Fig. 3-1.

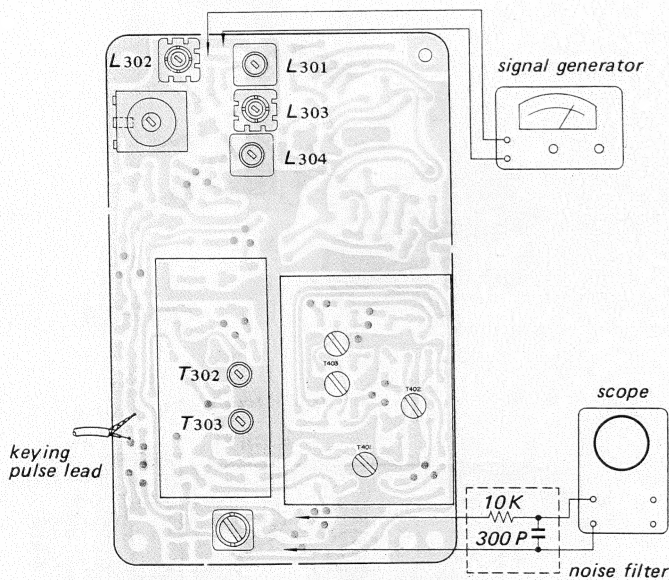


Fig. 3-1

39.75 MHz, 41.25 MHz and 47.25 MHz Trap Adjustments

1. Connect the VIF INPUT cable.
2. Connect a sweep generator to the tuner's test point through a 0.01-μF capacitor as shown in Fig. 3-2.
3. Loosely couple a marker generator to the output lead of the sweep generator.
4. Make the adjustments specified in TABLE 3-1 to produce the trap response curve as shown in Fig. 3-3.

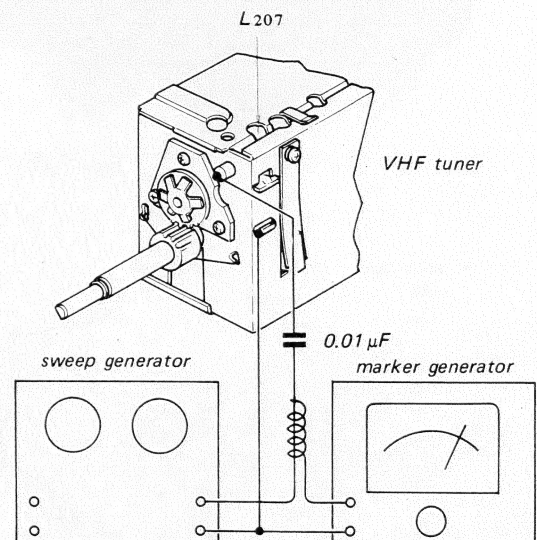


Fig. 3-2

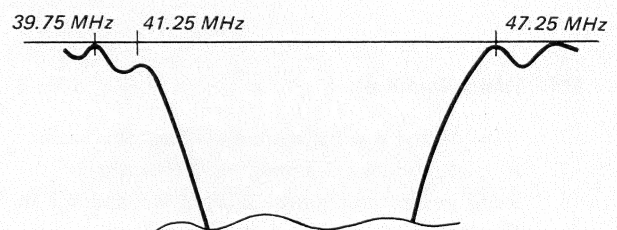


Fig. 3-3

33.75 MHz Trap Adjustments

1. Unsolder the VIF INPUT cable.
2. Connect a signal generator (33.75 MHz with 1 kHz 40% AM modulation) to the point where the VIF INPUT cable was connected as shown in Fig. 3-1.
3. Adjust the core of L304 for minimum 33.75 MHz modulated waveform on the scope.
4. Disconnect the signal generator.

VIF Response Curve Adjustments

1. Unsolder the VIF INPUT cable.
2. Connect a 250-k ohm rheostat across a resistor R326 as shown in Fig. 3-4.
3. Connect a VOM between the emitter of Q301 and grounding point as shown in Fig. 3-4.
4. Set the 250-k ohm rheostat to indicate 1.35 to 1.5 V on the VOM.

5. Disconnect the VOM.
6. Connect the VIF INPUT cable.
7. Connect a sweep generator and a marker generator to the tuner's test point as shown in Fig. 3-2.
8. Connect a scope to the VIF output terminals through a noise filter as shown in Fig. 3-1.
9. Set the marker generator to produce 44 MHz marker signal.
10. Adjust the output of sweep generator so that the 44 MHz marker on the VIF response curve indicates 15.5 Vp-p on the scope as shown in Fig. 3-5.
11. Make the adjustments specified in TABLE 3-2 to produce the VIF response curve as shown in Fig. 3-5.
12. Adjust the coil L207 in the tuner when satisfactory VIF response curve is not obtain by the foregoing Procedures.
13. Disconnect the sweep generator and scope.
14. Resolder the keying-pulse lead.

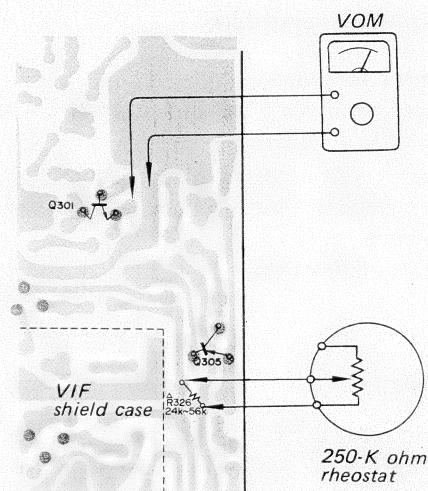


Fig. 3-4

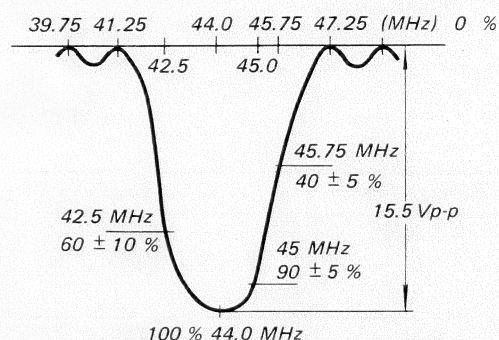


Fig. 3-5

TABLE 3-1. VIF TRAP ADJUSTMENTS

Marker Freq.	Adjust	Remarks
39.75 MHz	L303	Adjust the coil for minimum indication on the scope.
41.25 MHz	L301	Same as above.
47.25 MHz	L302	Same as above.

TABLE 3-2. VIF RESPONSE CURVE ADJUSTMENTS

Marker Freq.	Adjust	Remarks
44.0 MHz	T302 (pink core)	Adjust T302 for maximum distance between the marker point and baseline.
44.0 MHz	T303 (blue core)	Adjust T303 for maximum distance between the marker point and baseline.

3-2. SIF ADJUSTMENTS

Equipment Required:

Signal generator — 4.5 MHz with 1,000 Hz AM modulation

Sweep generator — covering the range 4 to 5 MHz

Marker generator — covering the range 4 to 5 MHz

Oscilloscope

Rheostat — 250-k ohm

Procedure:

1. Unsolder the VIF INPUT cable.
2. Connect the 250-k ohm rheostat across resistor R326 as shown in Fig. 3-4.
3. Set the 250-k ohm rheostat to make all video noise disappear from the screen of picture tube. (blank raster)
4. Connect a signal generator to the video-detector output as shown in Fig. 3-6.
5. Set the brightness control for optimum brightness and the contrast control fully clockwise position.
6. Adjust coil L402 for minimum 4.5 MHz stripes in the picture as shown in Fig. 3-7.
7. Disconnect the signal generator.
8. Connect a sweep generator to the video-detector output as shown in Fig. 3-6.
9. Loosely couple a marker generator to the output lead of the sweep generator.
10. Unsolder the SIF output cable.
11. Connect a dummy resistor (5-k ohm) across the input terminals of scope as shown in Fig. 3-8.
12. Connect a scope to the SIF output terminals (C420) as shown in Fig. 3-8, then make the adjustments specified in the following TABLE 3-3.

TABLE 3-3. SIF ADJUSTMENTS

Marker Freq.	Adjust	Remarks
4.5 MHz	T401 T402	Turn up sweep output signal to produce an S curve. Adjust T401 and T402 for maximum deflection on the scope.
4.5 MHz	T403 (pink core)	Turn the core to make the S curve symmetrical.
4.5 MHz	T403 (blue core)	Turn the core to cross the baseline at 4.5 MHz on the S curve.

Note: Repeat the above steps as necessary to produce the waveform as shown in Fig. 3-9.

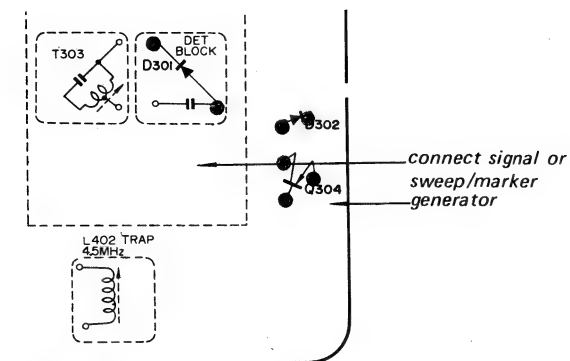


Fig. 3-6

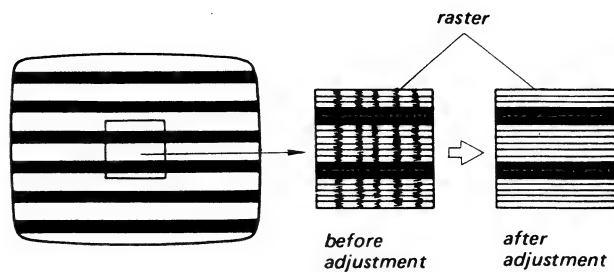


Fig. 3-7 4.5 MHz trap adjustment

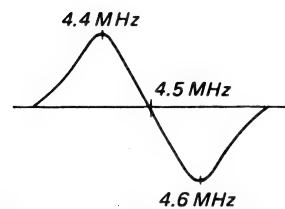


Fig. 3-9 SIF adjustment curve

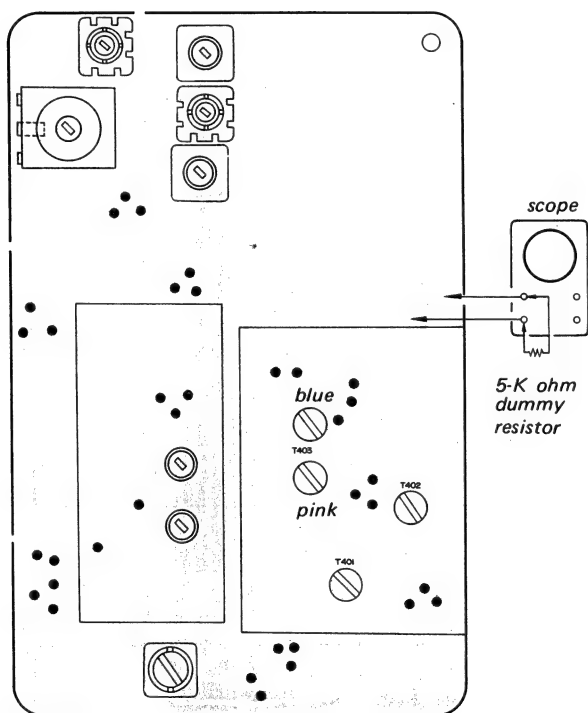


Fig. 3-8

3-3. DEFLECTION CIRCUIT ADJUSTMENTS

Step	Adjustment for	Preliminary Instruction	Equipment	Connection	Adjust	Remarks
1	Collector current of Q501 (VIDEO OUT)	Set the tuner to an inactive channel. Check 12V and 50V (across C504) power supply.	VOM	Across R504	R502 (43k – 68k)	For approx. 16 – 18 V reading.
2	Collector current of Q703 (VER OUT)	Adjust V and H hold controls for correct sync. Check 12V power supply.	VOM	Across R714	R711 (1600 – 2200)	For approx. 0.32 – 0.33 V reading.
3	Vert. Height and Linearity	Receive a test pattern. Check 12V power supply.			VR702 (Vert. Height) VR703 (Vert. Linearity)	For optimum vertical height and linearity on the picture.
4	Pulse width	Adjust V and H hold controls for correct sync.	scope	Emitter of Q801	C804 (0.047 – 0.22 μ F)	For 8.5 – 9.0 V used in Fig. 3 – 10.
5	HSC (Hor. stabilizing coil)	Adjust V and H hold controls for correct sync. Receive a test pattern.			HSC	So that the picture is stable in either case whether HSC is shorted or normal.
6	Horizontal width	Adjust V and H hold controls for correct sync. Set the brightness control to optimum position.	scope		C808 (0 – 0.015 μ F)	For optimum picture width.
7	Focus	Same as above. Adjust V and H hold controls for correct sync.			VR801 (600k ohm)	To obtain best focus.

Waveform of Horizontal Oscillator Transistor Q801 (Emitter)

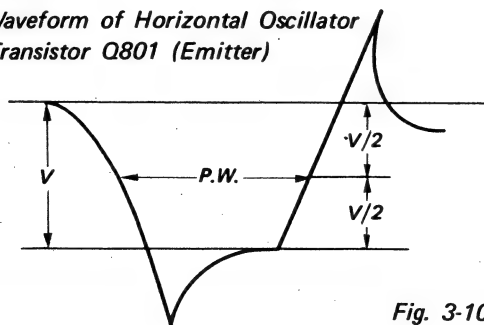


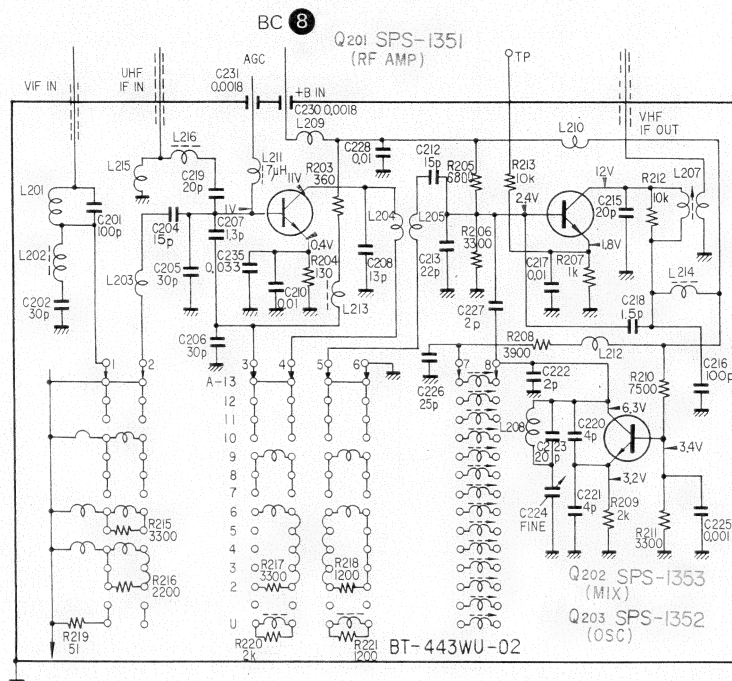
Fig. 3-10

SECTION 4

SCHEMATIC AND MOUNTING DIAGRAMS

4-1. VHF TUNER

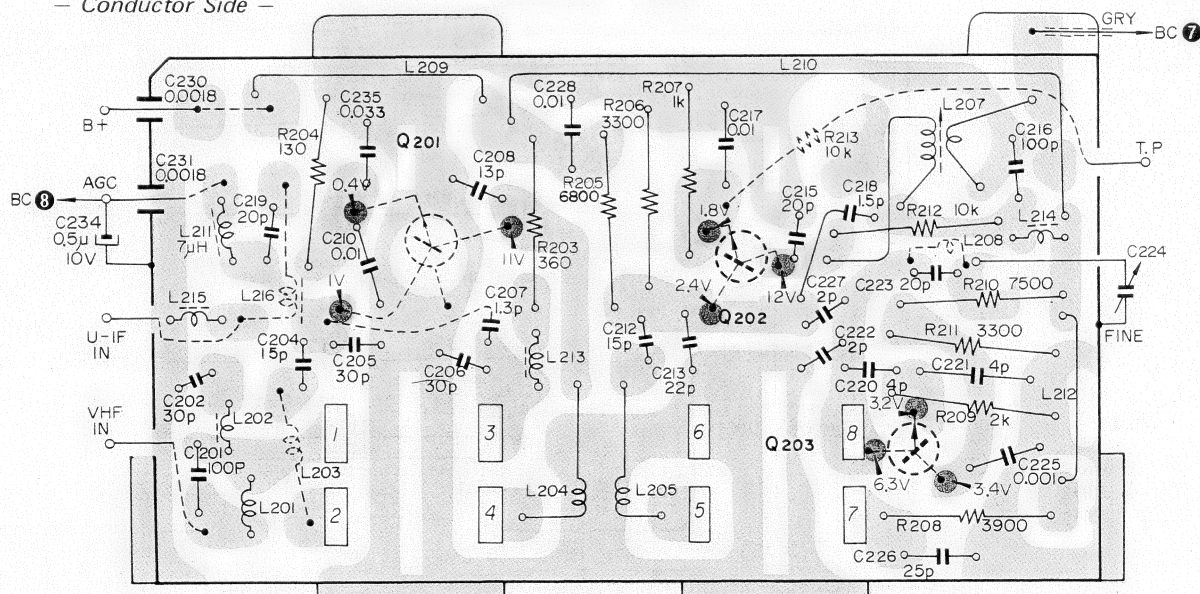
SCHEMATIC DIAGRAM



4-2. VHF TUNER

MOUNTING DIAGRAM

— Conductor Side —

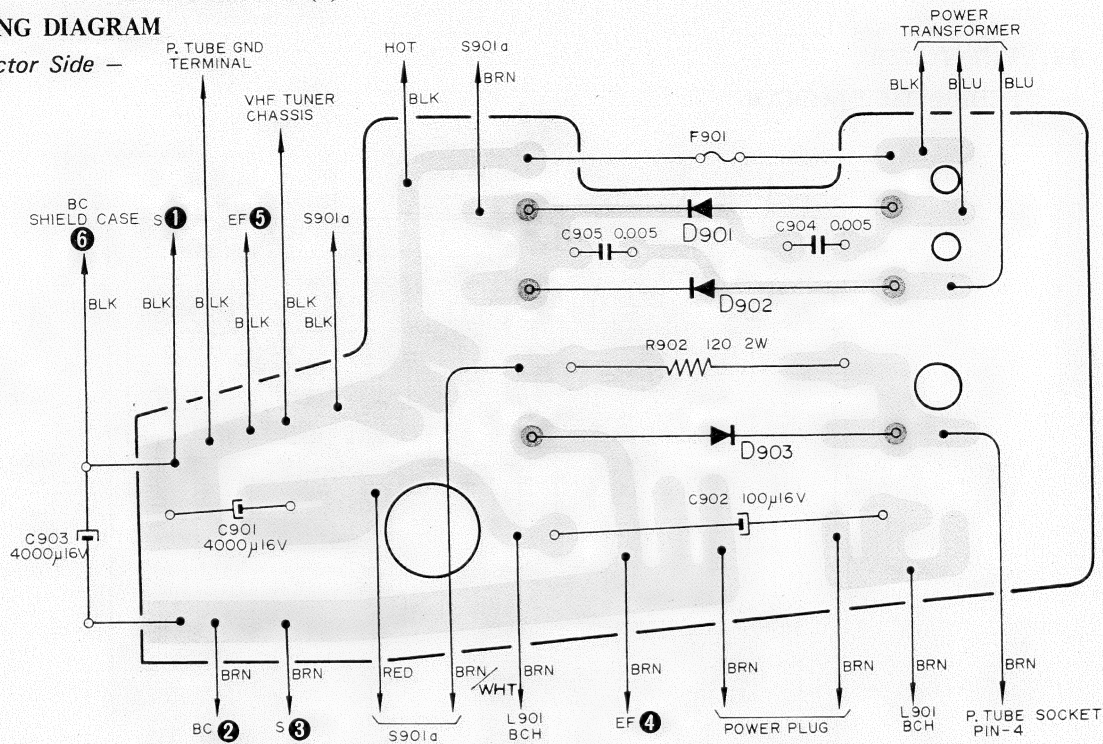


Note:

1. Voltages measured from chassis to point indicated with a VOM (20k ohm/V) with no signal input.
2. The components are subject to change without notice.
3. The following components are mounted on the conductor side.
(Q201, Q202, Q203, L202, L203, L208, L211, L216, R213, C207)

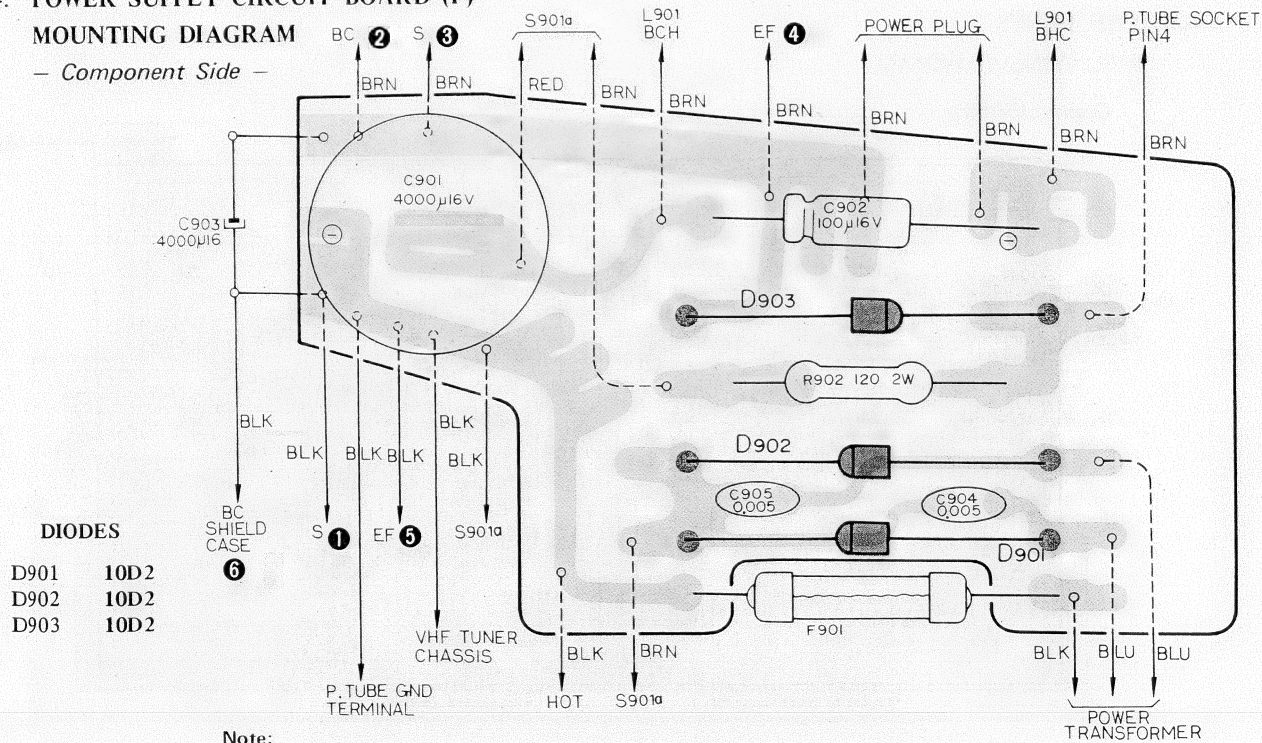
4-3. POWER SUPPLY CIRCUIT BOARD (P)
MOUNTING DIAGRAM

— Conductor Side —



4-4. POWER SUPPLY CIRCUIT BOARD (P)
MOUNTING DIAGRAM

— Component Side —



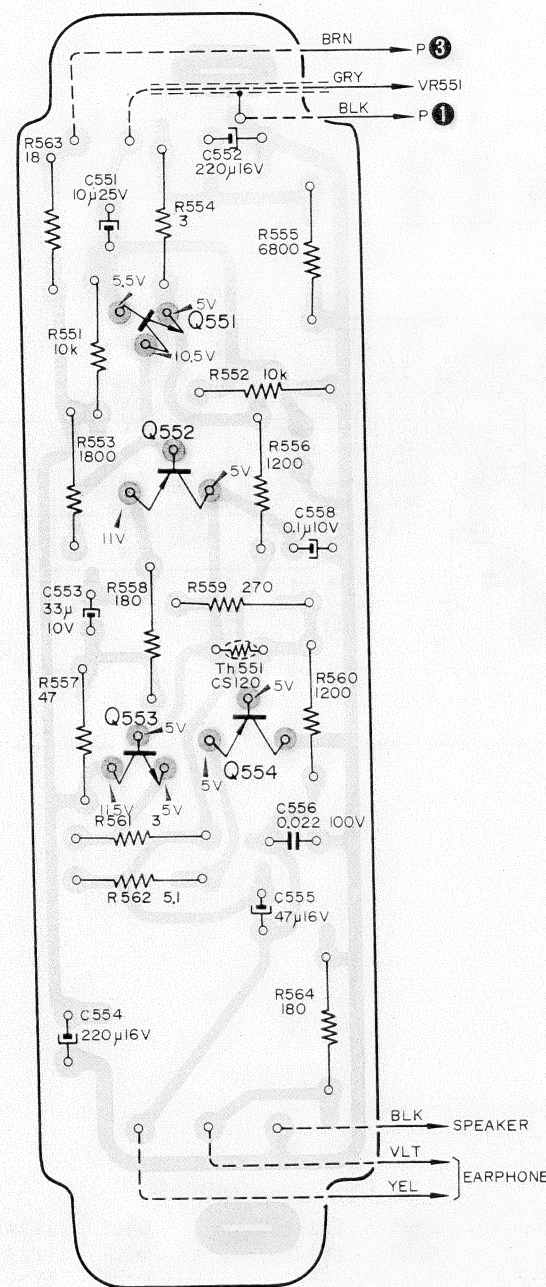
Note:

- 1. All capacitors are 50WV unless otherwise specified.
- 2. All resistors are 1/4W unless otherwise specified.
- 3. Voltages measured from chassis to point indicated with a VOM (20k ohm/V) with no signal input.
- 4. The components are subject to change without notice.
- 5. White lettering numbers in the black circle indicate the lead connecting points, and alphabet marks indicate the printed circuit board.

Example: BC ② ; Connect to the number 2 of BC board.

4-5. SOUND CIRCUIT BOARD (S) MOUNTING DIAGRAM

— Conductor Side —



TRANSISTORS

Q551	2SC633A
Q552	2SB383
Q553	2SD72
Q554	2SB382

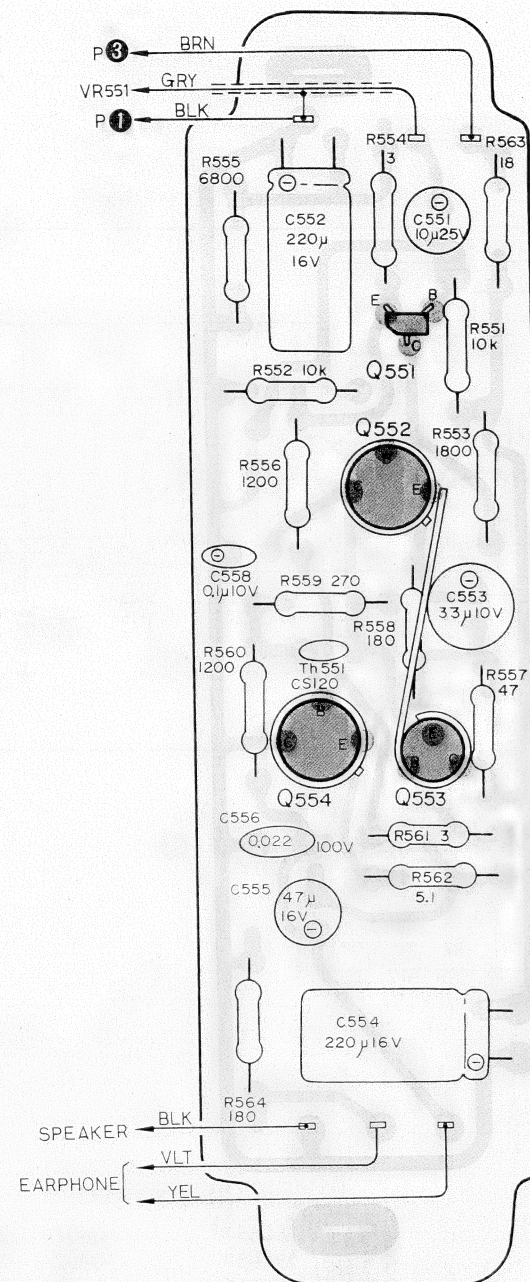
Note:

1. All capacitors are 50WV unless otherwise specified.
2. All resistors are 1/4W unless otherwise specified.
3. Voltages measured from chassis to point indicated with a VOM (20k ohm/V) with no signal input.
4. The components are subject to change without notice.
5. White lettering numbers in the black circle indicate the lead connecting points, and alphabet marks indicate the printed circuit board.

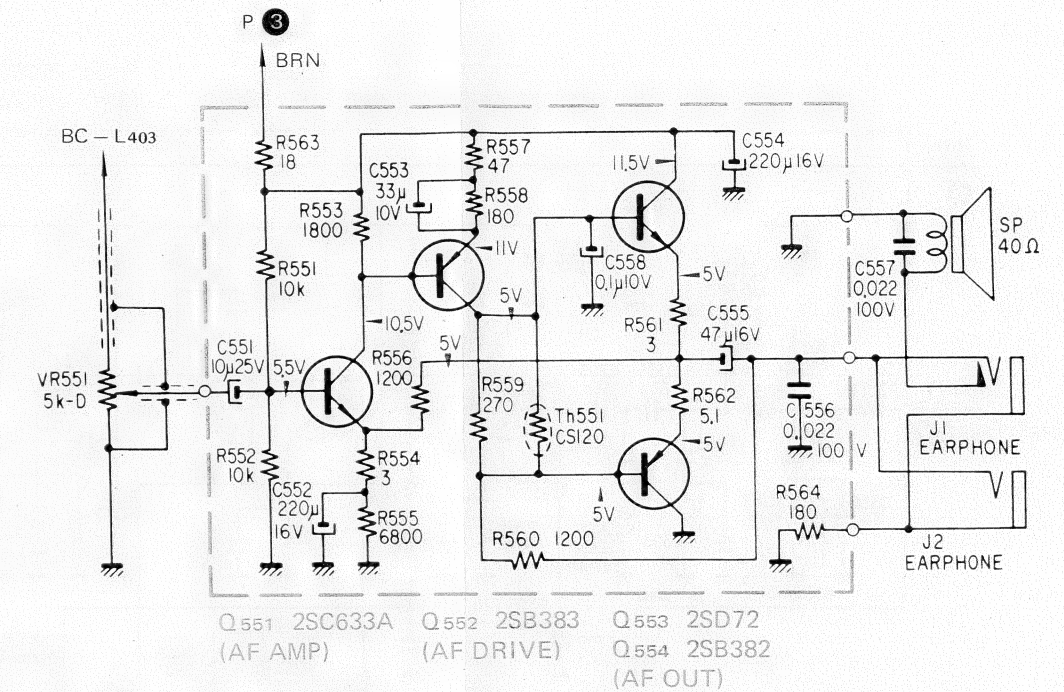
Example: P 1 ; Connect to the number 1 of P board.

4-6. SOUND CIRCUIT BOARD (S) MOUNTING DIAGRAM

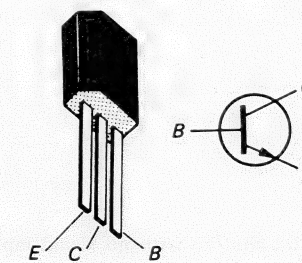
— Component Side —



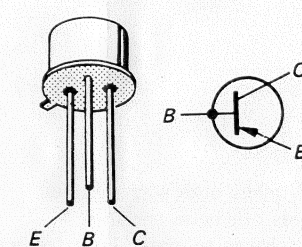
4-7. SOUND CIRCUIT BOARD (S) SCHEMATIC DIAGRAM



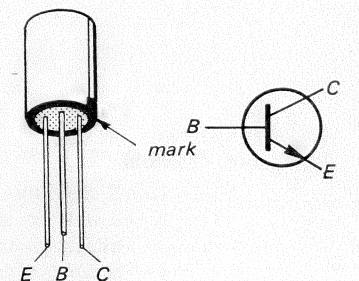
Q551 2SC633A



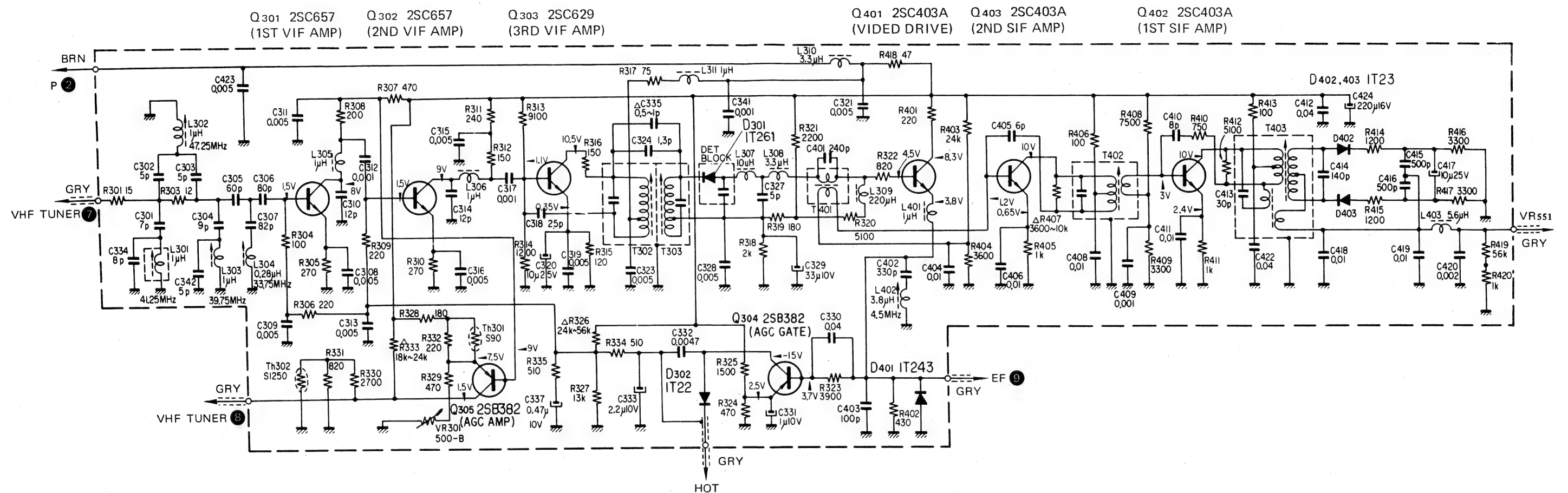
Q552 2SB383
Q554 2SB382



Q553 2SD72



4-8. SIGNAL CIRCUIT BOARD (BC) SCHEMATIC DIAGRAM



Note:

1. All capacitors are 50WV unless otherwise specified.
2. All resistors are $\frac{1}{4}W$ unless otherwise specified.
3. Voltages measured from chassis to point indicated with a VOM (20k ohm/V) with no signal input.
4. The components are subject to change without notice.

TRANSISTORS

Q301	2SC657	Q401	2SC403A
Q302	2SC657	Q402	2SC403A
Q303	2SC629	Q403	2SC403A
Q304	2SB382		
Q305	2SB382		

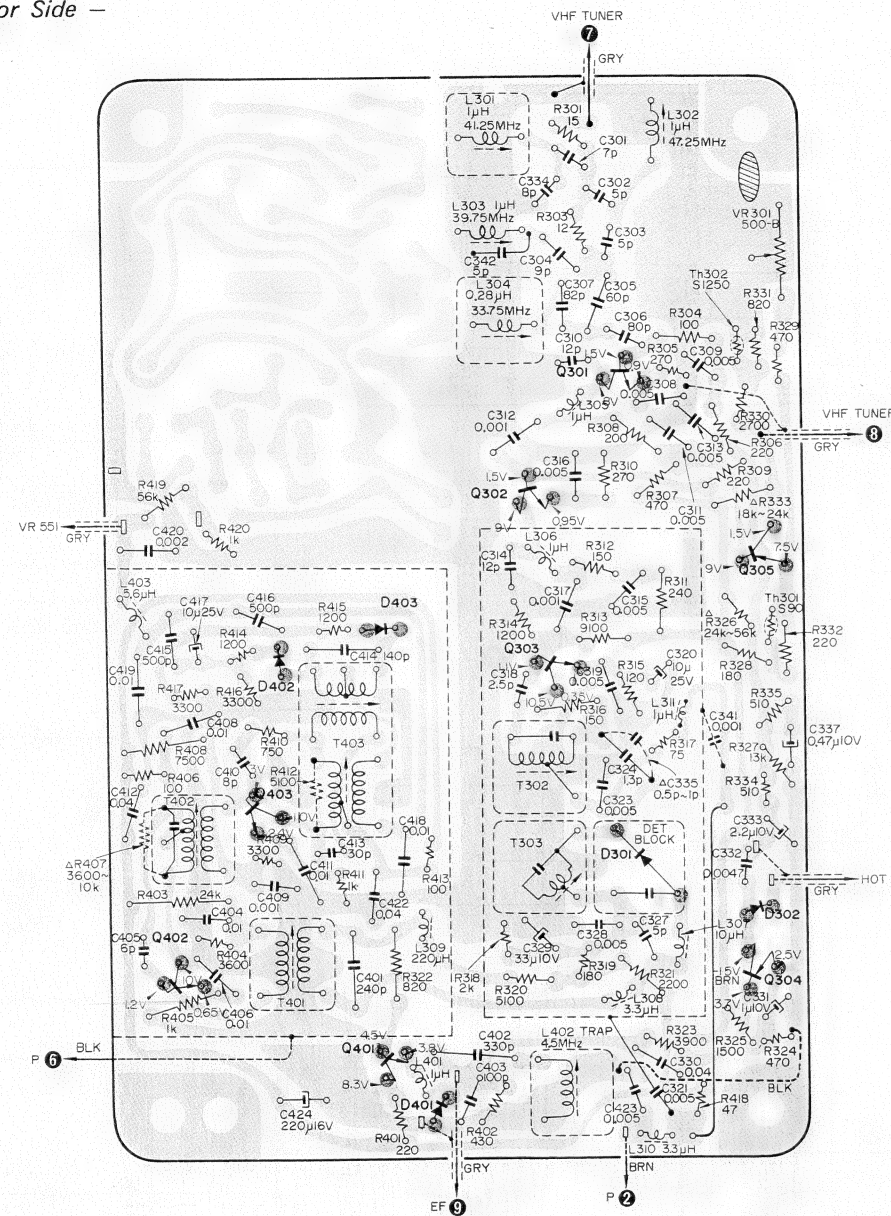
DIODES

D301	1T261	D401	1T243
D302	1T22	D402	1T23
		D403	1T23

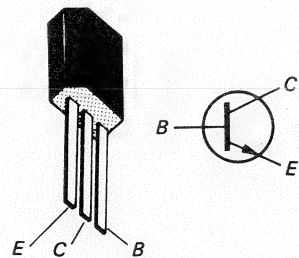
4-9. SIGNAL CIRCUIT BOARD (BC)

MOUNTING DIAGRAM

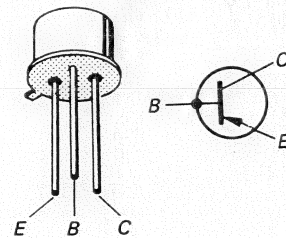
— Conductor Side —



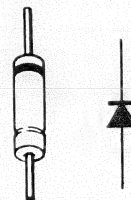
Q301, Q302, Q303
Q401, Q402, Q403



Q304, Q305



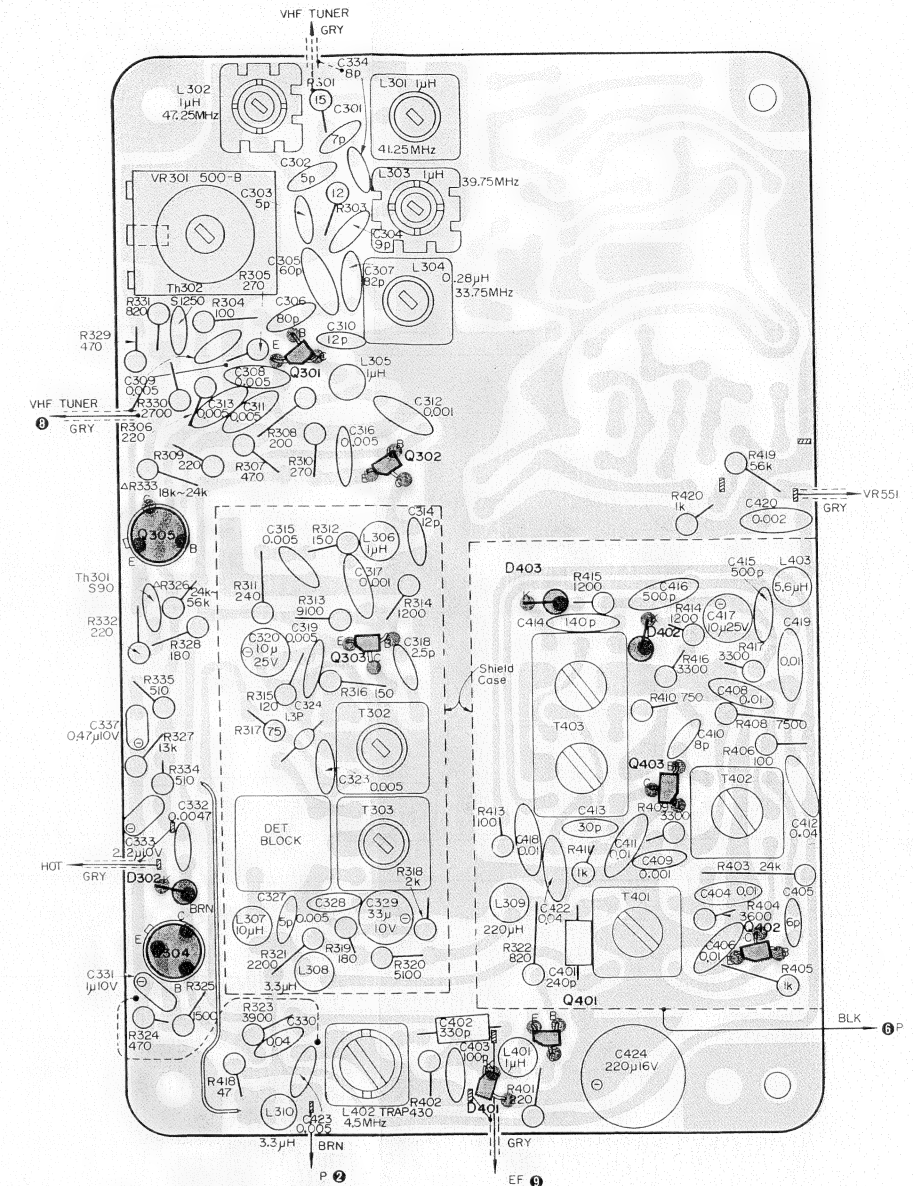
D301, D302, D401,
D402, D403



4-10. SIGNAL CIRCUIT BOARD (BC)

MOUNTING DIAGRAM

— Component Side —



TRANSISTORS

Q301 2SC657
Q302 2SC657
Q303 2SC629
Q304 2SB382
Q305 2SB382

Q401 2SC403A
Q402 2SC403A
Q403 2SC403A

DIODES

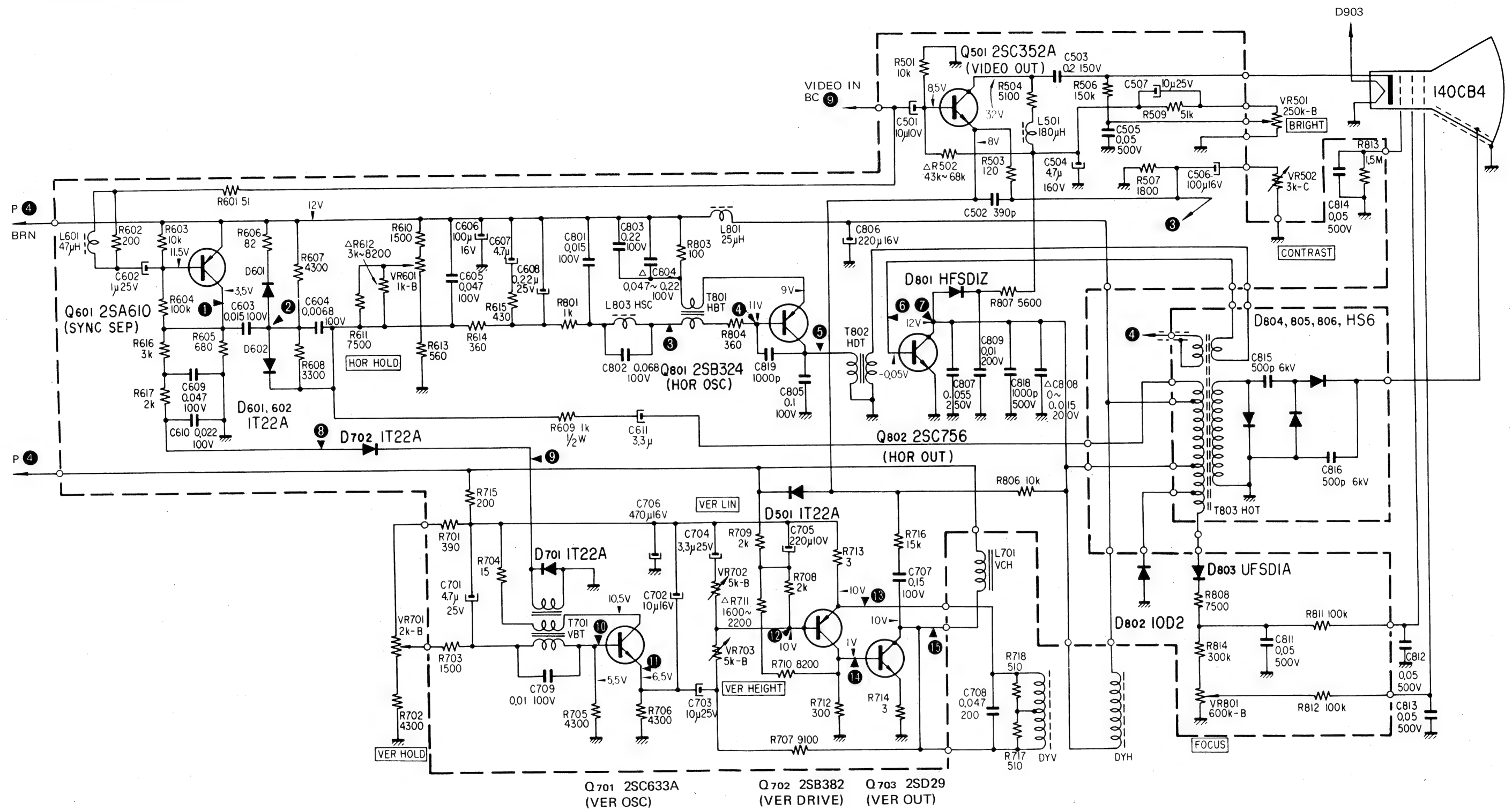
D301 1T261
D302 1T22

D401 1T243
D402 1T23
D403 1T23

Note:

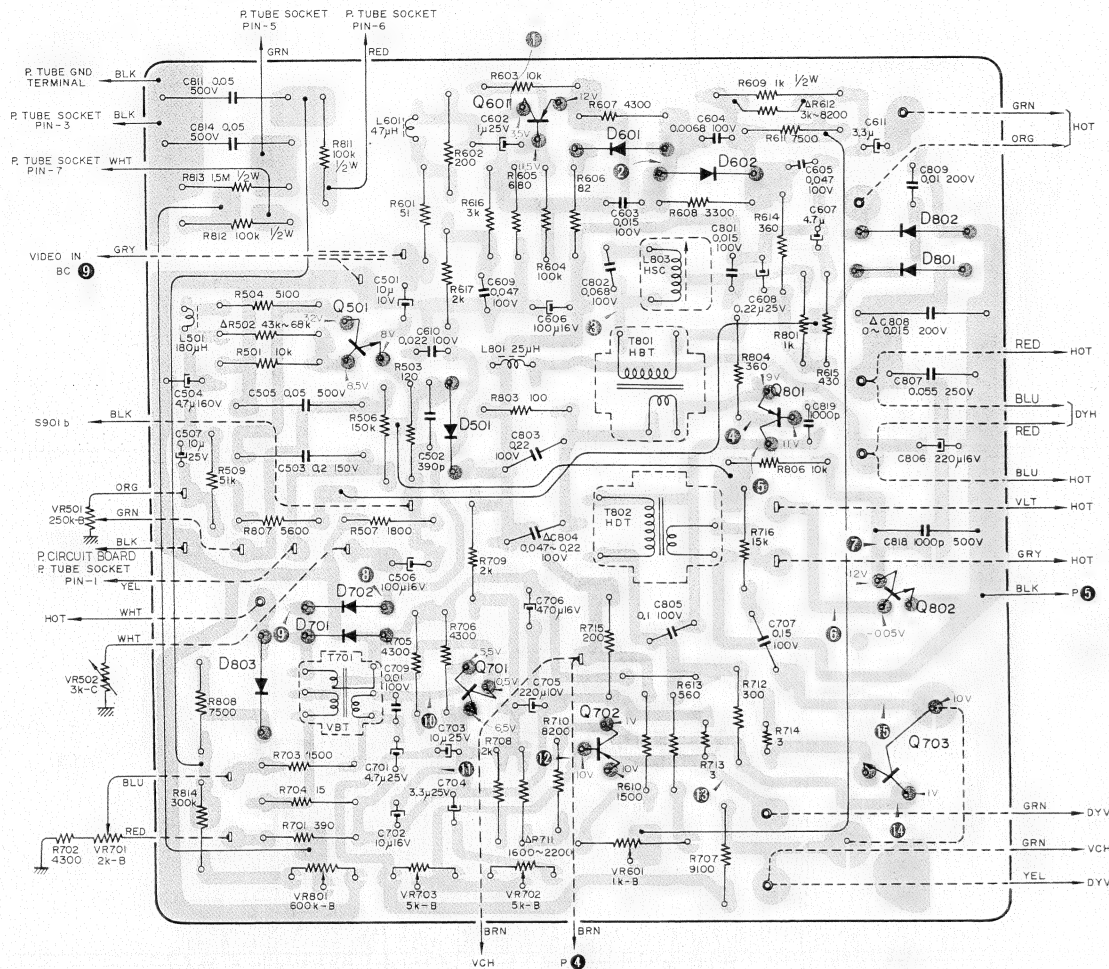
- All capacitors are 50 WV unless otherwise specified.
- All resistors are 1/4W unless otherwise specified.
- Voltages measured from chassis to point indicated with a VOM (20k ohm/V) with no signal input.
- The components are subject to change without notice.
- White lettering numbers in the black circle indicate the lead connecting points, and alphabet marks indicate the printed circuit board.
Example: P 6 ; Connect to the number 6 of P board.
- The following components are mounted on the conductor side.
(L311, C321, C335, C341, C342, R407, R412)

4-11. DEFLECTION CIRCUIT BOARD (EF)
SCHEMATIC DIAGRAM



4-12. DEFLECTION CIRCUIT BOARD (EF)
MOUNTING DIAGRAM

— Conductor Side —

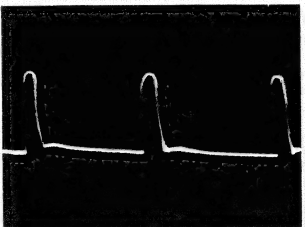


TRANSISTORS			DIODES		
Q501	2SC352A	Q801	2SB324	D501	1T22A
		Q802	2SC756	D601	1T22A
Q601	2SA610			D602	1T22A
Q701	2SC633A			D801	HFSD1Z
Q702	2SB382			D802	10D2
Q703	2SD29			D803	UFSD1A

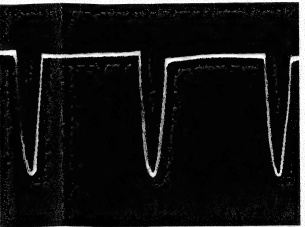
Note:

- All capacitors are 50WV unless otherwise specified.
- All resistors are 1/4W unless otherwise specified.
- Voltages measured from chassis to point indicated with a VOM (20k ohm/V) with no signal input.
- The components are subject to change without notice.
- White lettering numbers in the black circle indicate the lead connecting points, and alphabet marks indicate the printed circuit board.
Example: BC 9 ; Connect to the number 9 of BC board.
- The red circled numbers (1 ~ 15) are shown in waveforms numbers.

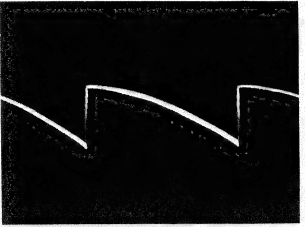
4-13. WAVEFORMS



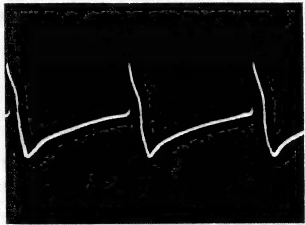
1 Collector of Q601
11Vp-p (H.)



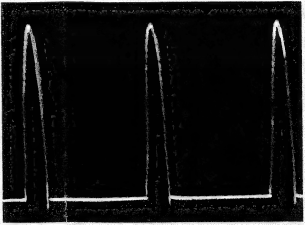
5 Base of Q802
6.4Vp-p (H.)



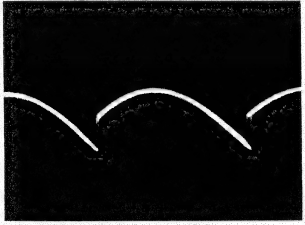
11 Emitter of Q701
3.2Vp-p (V.)



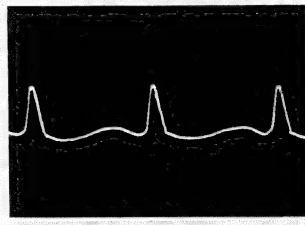
2 Anode of D601
12Vp-p (H.)



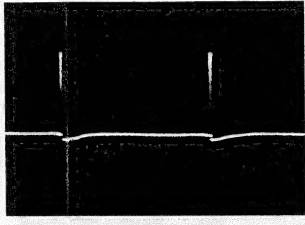
7 Collector of Q802
88Vp-p (H.)



12 Base of Q702
1.4Vp-p (V.)



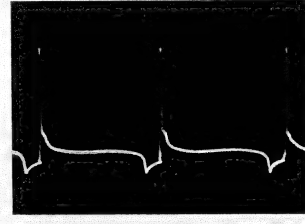
3 Right side of HSC
7.0Vp-p (H.)



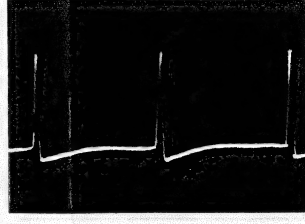
8 Anode of D702
5.5Vp-p (V.)



13 Emitter of Q702
1.4Vp-p (V.)



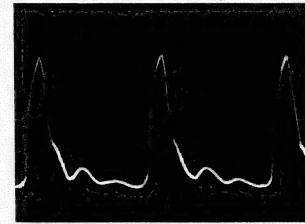
4 Base of Q801
6.4Vp-p (H.)



9 Cathode of D702
12Vp-p (V.)



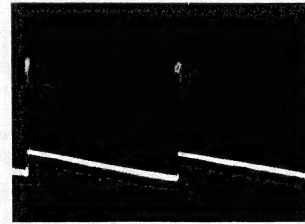
14 Collector of Q702
1.2Vp-p (V.)



5 Collector of Q801
6.8Vp-p (H.)



10 Base of Q701
5.0Vp-p (V.)

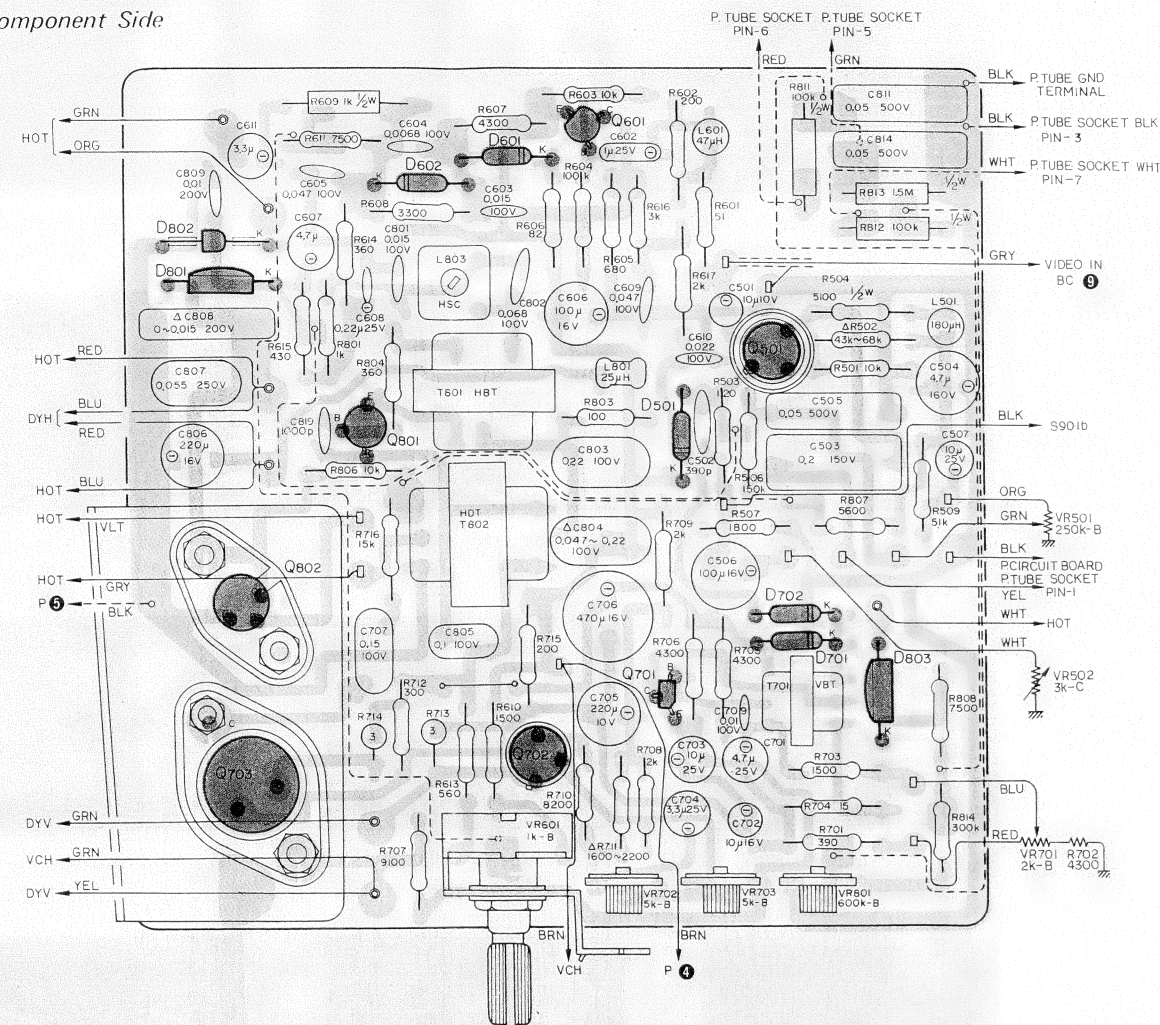


15 Collector of Q703
58Vp-p (V.)

4-14. DEFLECTION CIRCUIT BOARD (EF)

MOUNTING DIAGRAM

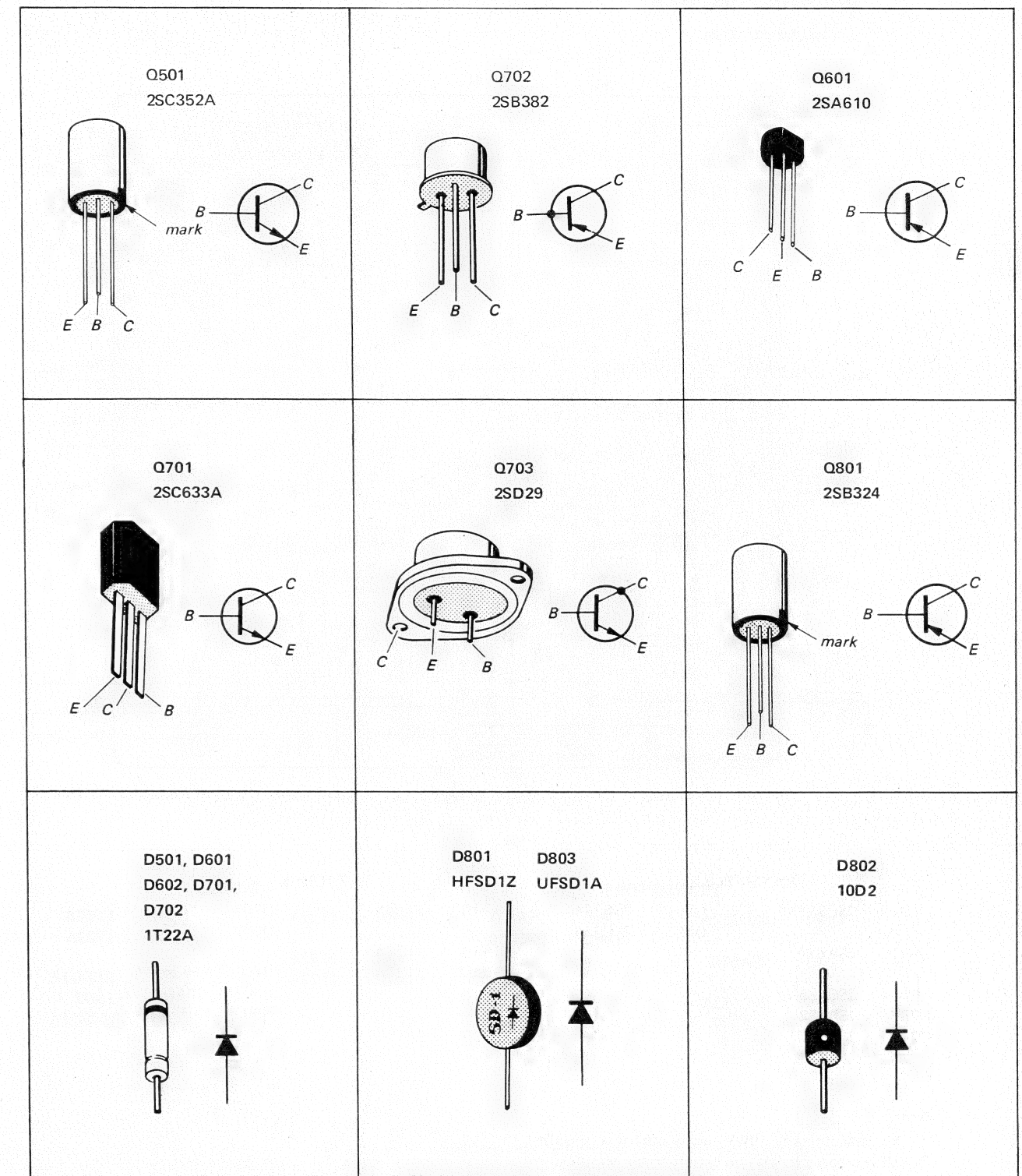
— *Component Side*



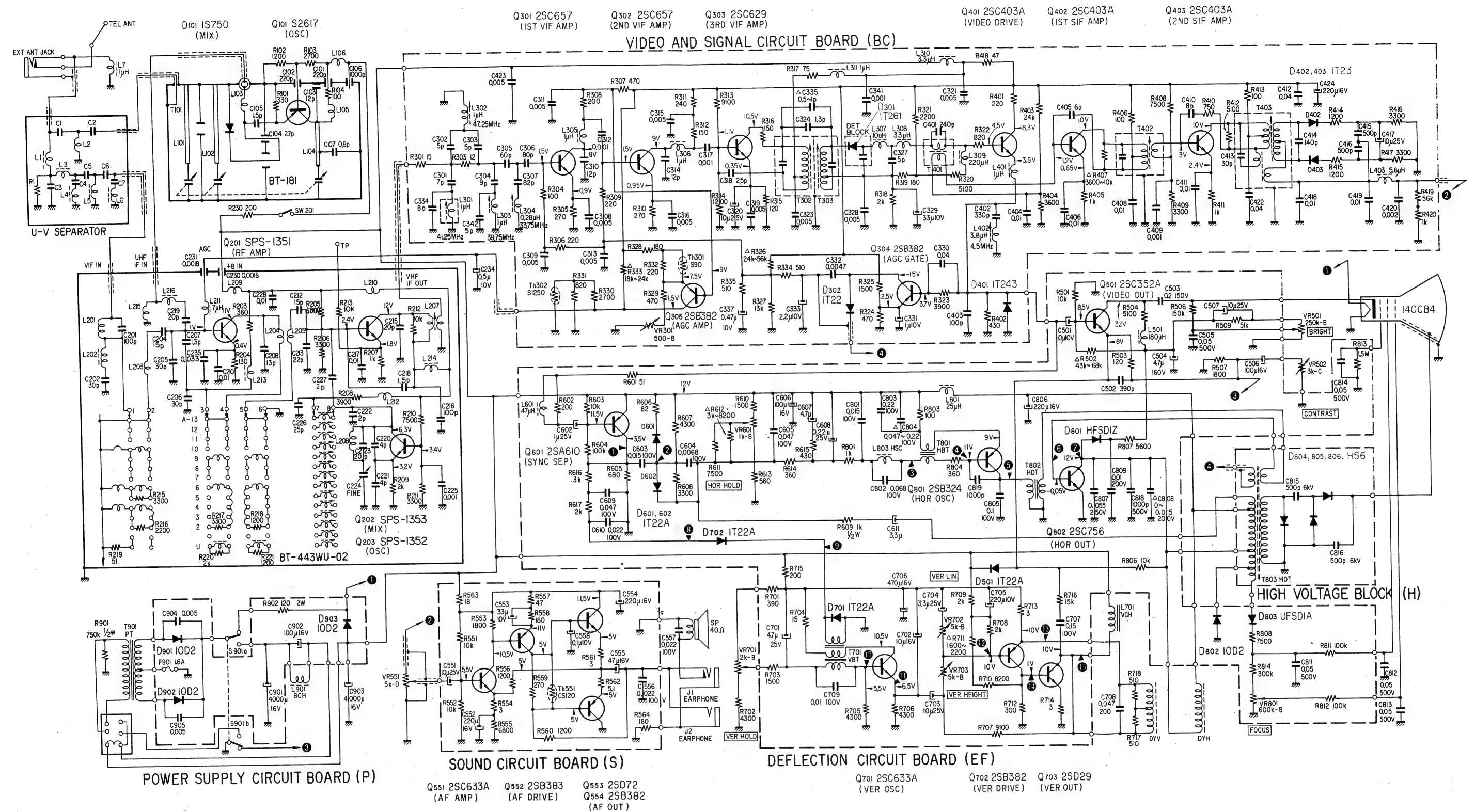
TRANSISTORS				DIODES			
Q501	2SC352A	Q801	2SB324	D501	1T22A	D701	1T22A
		Q802	2SC756			D702	1T22A
Q601	2SA610			D601	1T22A		
				D602	1T22A	D801	HFSD1Z
Q701	2SC633A					D802	10D2
Q702	2SB382					D803	UFSD1A
Q703	2SD29						

Note:

1. All capacitors are 50WV unless otherwise specified.
2. All resistors are ¼W unless otherwise specified.
3. Voltages measured from chassis to point indicated with a VOM (20k ohm/V) with no signal input.
4. The components are subject to change without notice.
5. White lettering numbers in the black circle indicate the lead connection points, and alphabet marks indicate the printed circuit board.
Example: BC ⑨ ; Connect to the number 9 of BC board.
6. The following component is mounted on the conductor side.
(R102)



4-15. SCHEMATIC DIAGRAM

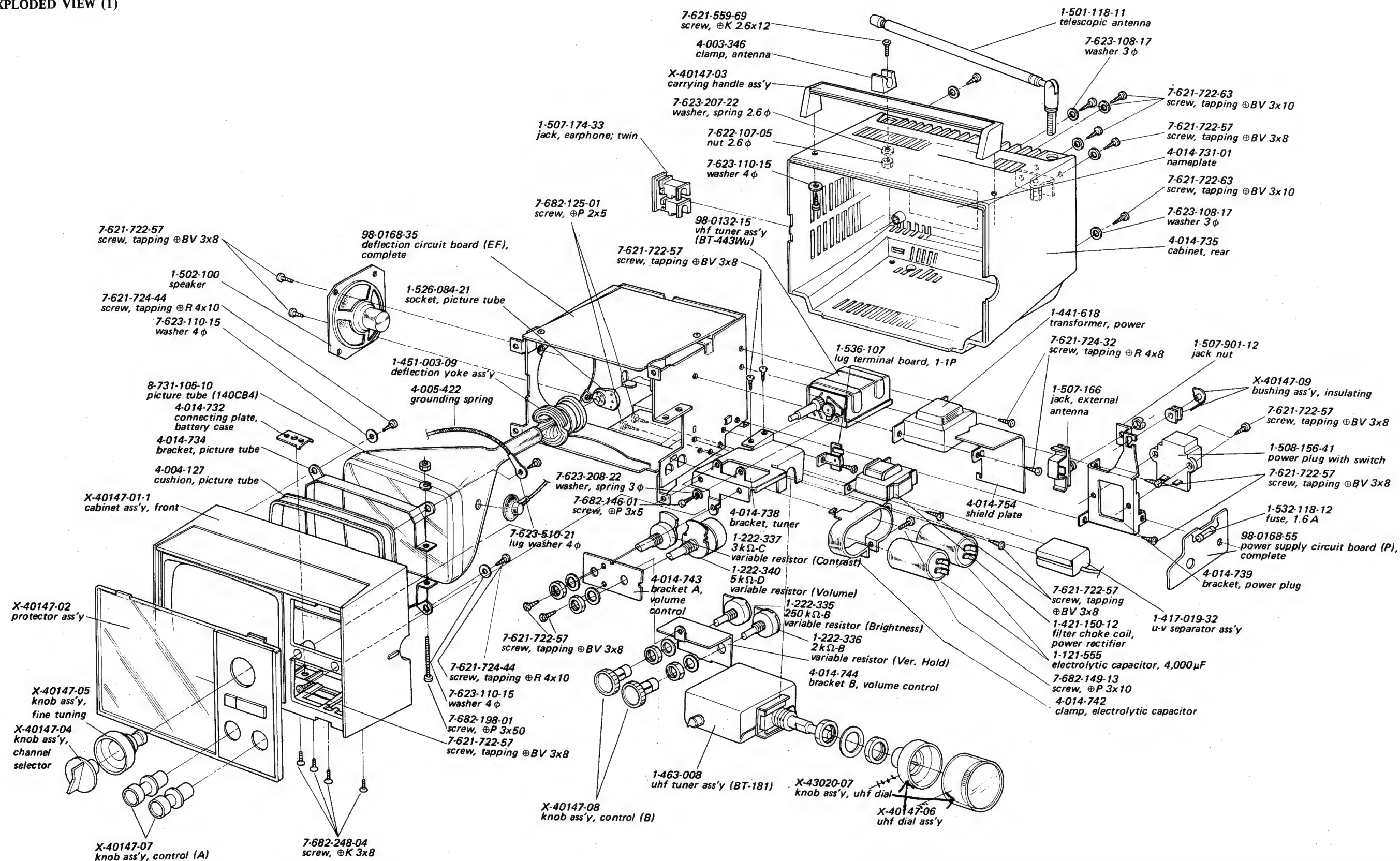


Note:

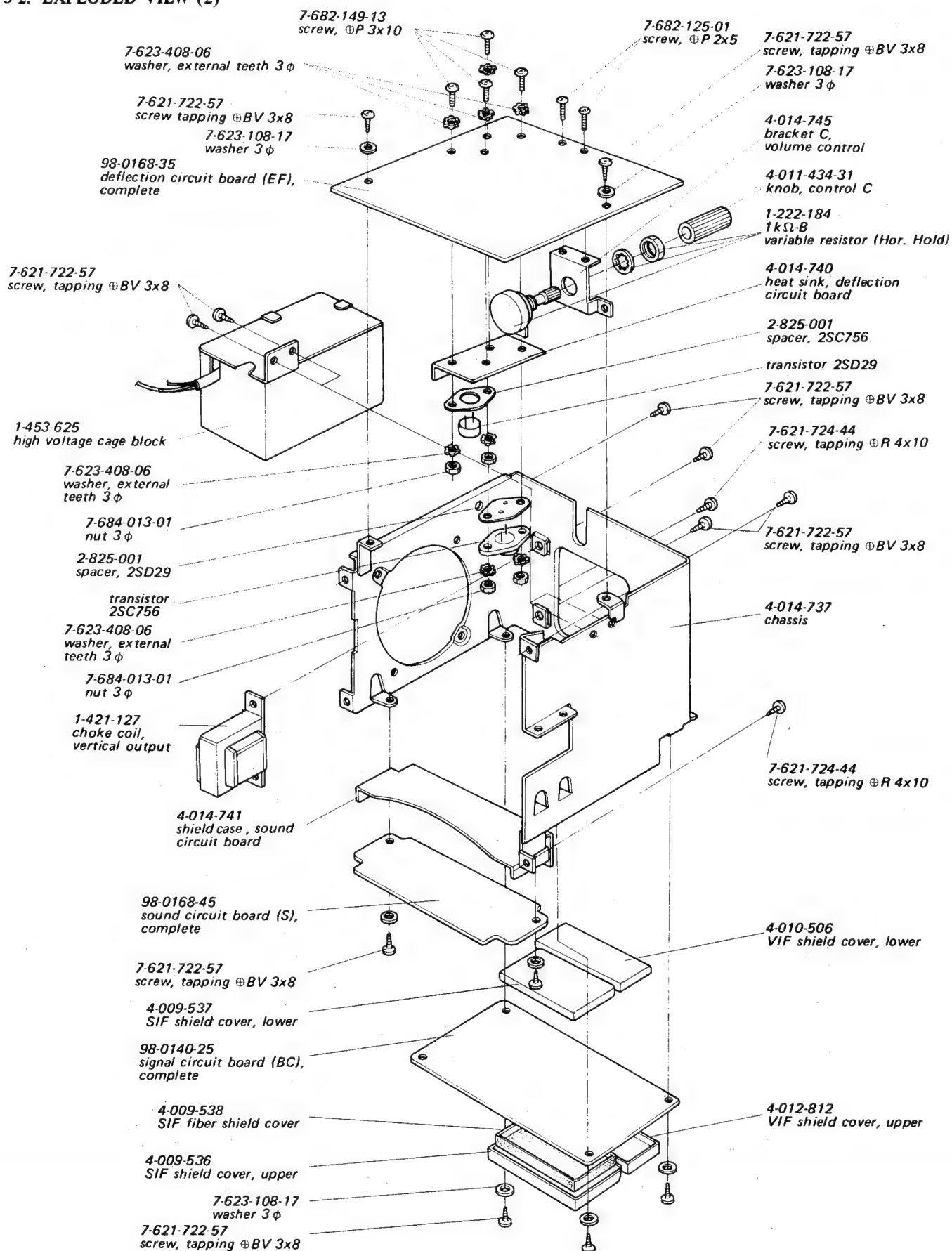
1. All capacitors are 50WV unless otherwise specified.
2. All resistors are 1/4W unless otherwise specified.
3. Resistance and capacitance values marked Δ are to be selected to yield specified operating conditions.
4. Voltages measured from chassis to point indicated with a VOM (20k ohm/V) with no signal input.
5. The components are subject to change without notice.

SECTION 5 EXPLODED VIEW AND PACKING

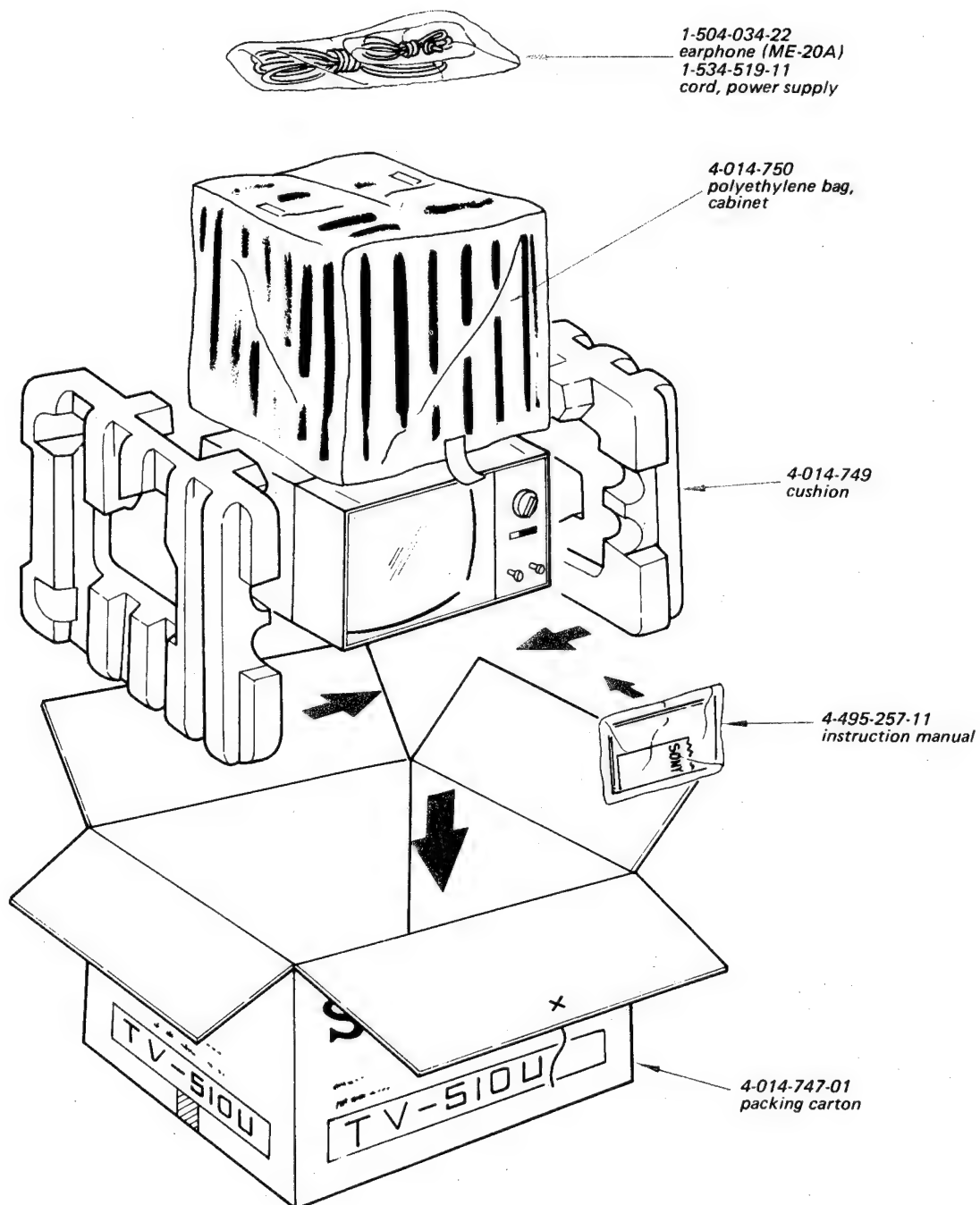
5.1. EXPLODED VIEW (1)



5-2. EXPLODED VIEW (2)



5-3. PACKING



SECTION 6

ELECTRICAL PARTS LIST

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
GENERAL					
	98-0132-15	VHF tuner ass'y (BT-443Wu)	D901		diode 10D2
	1-463-008	UHF tuner ass'y (BT-181)	D902		diode 10D2
	98-0140-25	signal circuit board (BC), complete	D903		diode 10D2
	98-0168-35	deflection circuit board (EF), complete	Th301	8-690-003-00	thermistor S90
	98-0168-45	sound circuit board (S), complete	Th302	8-690-006-00	thermistor S1250
	98-0168-55	power supply circuit board (P), complete	Th551	8-691-001	thermistor CS-120
SEMICONDUCTORS					
Q301		transistor 2SC657	COILS		
Q302		transistor 2SC657	L7	1-407-178	1 μ H micro inductor
Q303		transistor 2SC629	L301	1-409-160-31	41.25 MHz trap coil
Q304		transistor 2SB382	L302	1-409-160-21	47.25 MHz trap coil
Q305		transistor 2SB382	L303	1-409-160-21	39.75 MHz trap coil
Q401		transistor 2SC403A	L304	1-409-170-11	33.75 MHz trap coil
Q402		transistor 2SC403A	L305	1-407-178	1 μ H micro inductor
Q403		transistor 2SC403A	L306	1-407-178	1 μ H micro inductor
Q501		transistor 2SC352A	L307	1-407-157	10 μ H micro inductor
Q551		transistor 2SC633A	L308	1-407-184	3.3 μ H micro inductor
Q552		transistor 2SB383	L309	1-407-173	220 μ H micro inductor
Q553		transistor 2SD72	L310	1-407-184	3.3 μ H micro inductor
Q554		transistor 2SB382	L311	1-407-178	1 μ H micro inductor
Q601		transistor 2SA610	L401	1-407-178	1 μ H micro inductor
Q701		transistor 2SC633A	L402	1-409-036-11	4.5 MHz trap coil
Q702		transistor 2SB382	L403	1-407-187	5.6 μ H micro inductor
Q703		transistor 2SD29	L501	1-407-172	180 μ H micro inductor
Q801		transistor 2SB324	L601	1-407-165	47 μ H micro inductor
Q802		transistor 2SC756	L701	1-421-127	choke coil, vertical output
D301		diode IT261	L801	1-421-013-11	25 μ H filter inductor
D302		diode IT22	L803	1-413-012-12	coil, horizontal stabilizing
D401		diode IT243	L901	1-421-150-12	filter choke coil, power rectifier
D402		diode IT23	TRANSFORMERS		
D403		diode IT23	T302	1-403-701	VIFT
D501		diode IT22A	T303	1-403-702	VIFT
D601		diode IT22A	T401	1-403-348	SIFT
D602		diode IT22A	T402	1-403-349	SIFT
D701		diode IT22A	T403	1-403-313	SIFT
D702		diode IT22A	T701	1-435-008-12	transformer, vertical osc; VBT
D801		diode HFSD1Z		1-435-008-11	transformer, vertical osc; VBT
D802		diode 10D2	T801	1-435-016-11	transformer, horizontal osc; HBT
D803		diode UFSD1A	T802	1-437-004-11	transformer, horizontal drive; HDT
			T803	1-453-625	high voltage cage block; HOT
			T901	1-441-618	transformer, power; PT

Ref. No.	Part No.	Description				Ref. No.	Part No.	Description			
CAPACITORS											
C301	1-101-957	7pF	±0.5pF	50WV	ceramic	C416	1-101-423	500pF	±20%	50WV ceramic	
C302	1-101-969	5pF	±0.5%	50WV	ceramic	C417	1-121-398	10μF	±100%	25WV electrolytic	
C303	1-101-969	5pF	±0.5%	50WV	ceramic	C418	1-101-118	0.01μF	±20%	50WV ceramic	
C304	1-101-832	9pF	±0.2pF	50WV	ceramic	C419	1-101-118	0.01μF	±20%	50WV ceramic	
C305	1-101-583	60pF	±5%	50WV	ceramic	C420	1-101-002	0.002μF	±100%	50WV ceramic	
C306	1-101-057	80pF	±5%	50WV	ceramic	C422	1-101-006	0.04μF	±100%	50WV ceramic	
C307	1-101-892	82pF	±5%	50WV	ceramic	C423	1-101-003	0.005μF	±100%	50WV ceramic	
C308	1-101-003	0.005μF	±100%	50WV	ceramic	C424	1-121-358	220μF	±100%	16WV electrolytic	
C309	1-101-003	0.005μF	±100%	50WV	ceramic	C501	1-121-469	10μF	±100%	10WV electrolytic	
C310	1-101-961	12pF	±5%	50WV	ceramic	C502	1-102-834	390pF	±10%	50WV ceramic	
C311	1-101-003	0.005μF	±100%	50WV	ceramic	C503	1-113-124	0.2μF	±10%	150WV paper	
C312	1-101-455	0.001μF	±20%	50WV	ceramic	C504	1-121-246	4.7μF	±100%	160WV electrolytic	
C313	1-101-003	0.005μF	±100%	50WV	ceramic	C505	1-113-122	0.05μF	±20%	500WV paper	
C314	1-101-961	12pF	±5%	50WV	ceramic	C506	1-121-415	100μF	±100%	16WV electrolytic	
C315	1-101-003	0.005μF	±100%	50WV	ceramic	C507	1-121-398	10μF	±100%	25WV electrolytic	
C316	1-101-003	0.005μF	±100%	50WV	ceramic	C551	1-121-398	10μF	±100%	25WV electrolytic	
C317	1-101-455	0.001μF	±20%	50WV	ceramic	C552	1-121-421	220μF	±100%	16WV electrolytic	
C318	1-101-940	2.5pF	±10%	50WV	ceramic	C553	1-121-402	33μF	±100%	10WV electrolytic	
C319	1-101-003	0.005μF	±100%	50WV	ceramic	C554	1-121-421	220μF	±100%	16WV electrolytic	
C320	1-121-398	10μF	±100%	25WV	electrolytic	C555	1-121-409	47μF	±100%	16WV electrolytic	
C321	1-101-003	0.005μF	±100%	50WV	ceramic	C556	1-105-717-12	0.022μF	±10%	100WV mylar	
C323	1-101-003	0.005μF	±100%	50WV	ceramic	C557	1-105-717-12	0.022μF	±10%	100WV mylar	
C324	1-101-587	1.3pF	±0.2pF	50WV	ceramic	C558	1-127-019	0.1μF	±20%	10WV electrolytic (alox)	
C327	1-101-955	5pF	±0.5pF	50WV	ceramic	C602	1-127-094	1μF	±20%	25WV electrolytic (alox)	
C328	1-101-003	0.005μF	±100%	50WV	ceramic	C603	1-105-715-12	0.015μF	±10%	100WV mylar	
C329	1-121-402	33μF	±100%	10WV	electrolytic	C604	1-105-711-12	0.0068μF	±10%	100WV mylar	
C330	1-101-006	0.04μF	±100%	50WV	ceramic	C605	1-105-721-12	0.047μF	±10%	100WV mylar	
C331	1-127-023	1μF	±20%	10WV	aluminum electrolytic	C606	1-121-415	100μF	±100%	16WV electrolytic	
C332	1-105-669-12	0.0047μF	±10%	50WV	mylar	C607	1-121-396	4.7μF	±100%	50WV electrolytic	
C333	1-127-024	2.2μF	±20%	10WV	aluminum electrolytic	C608	1-127-091	0.22μF	±20%	25WV electrolytic (alox)	
C334	1-101-958	8pF	±0.5pF	50WV	ceramic	C609	1-105-721-12	0.047μF	±10%	100WV mylar	
* C335	1-101-837	0.5pF	±0.2pF	50WV	ceramic	C610	1-105-717-12	0.022μF	±10%	100WV mylar	
	1-101-586	0.8pF	±0.2pF	50WV	ceramic	C611	1-121-393	3.3μF	±100%	50WV electrolytic	
	1-101-163	1pF	±20%	50WV	ceramic	C701	1-127-232	4.7μF	±20%	25WV electrolytic (alox)	
	1-127-022	0.47μF	±20%	10WV	aluminum electrolytic	C702	1-131-116	10μF	±20%	16WV electrolytic	
C337	1-127-022	0.47μF	±20%	10WV	aluminum electrolytic	C703	1-121-398	10μF	±100%	50WV electrolytic	
C341	1-101-455	0.001μF	±20%	50WV	ceramic	C704	1-127-231	3.3μF	±20%	25WV electrolytic (alox)	
C342	1-101-969	5pF	±0.5pF	50WV	ceramic	C705	1-121-420	220μF	±100%	10WV electrolytic	
C401	1-103-610	240pF	±5%	50WV	polystyrene	C706	1-121-426	470μF	±100%	16WV electrolytic	
C402	1-103-663	330pF	±10%	50WV	polystyrene	C707	1-105-727-12	0.15μF	±10%	100WV mylar	
C403	1-101-896	100pF	±5%	50WV	ceramic	C709	1-105-713-12	0.01μF	±10%	100WV mylar	
C404	1-101-004	0.01μF	±100%	50WV	ceramic	C801	1-105-715-12	0.015μF	±10%	100WV mylar	
C405	1-101-956	6pF	±0.5pF	50WV	ceramic	C802	1-105-723-12	0.068μF	±10%	100WV mylar	
C406	1-101-004	0.01μF	±100%	50WV	ceramic	C803	1-105-729-12	0.22μF	±10%	100WV mylar	
C408	1-101-004	0.01μF	±100%	50WV	ceramic	* C804	1-105-721-12	0.047μF	±10%	100WV mylar	
C409	1-101-455	0.001μF	±20%	50WV	ceramic		1-105-725-12	0.1μF	±10%	100WV mylar	
C410	1-101-958	8pF	±5pF	50WV	ceramic		1-105-727-12	0.15μF	±10%	100WV mylar	
C411	1-101-004	0.01μF	±100%	50WV	ceramic		1-105-729-12	0.22μF	±10%	100WV mylar	
C412	1-101-006	0.04μF	±100%	50WV	ceramic	C805	1-105-725-12	0.1μF	±10%	100WV mylar	
C413	1-101-115	30pF	±5%	50WV	ceramic						
C414	1-101-571	140pF	±5%	50WV	ceramic						
C415	1-101-423	500pF	±20%	50WV	ceramic						

※ : to be selected

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>				<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>			
C806	1-121-421	220 μ F	$\pm 100\%$	16WV	electrolytic	R328	1-248-655	180 Ω	$\pm 10\%$	ERD14V	carbon
C807	1-105-292-12	0.055 μ F	$\pm 10\%$	250WV	mylar	R329	1-248-665	470 Ω	$\pm 10\%$	ERD14V	carbon
C808	1-105-274-12	0.01 μ F + 0.005 μ F		200WV	mylar	R330	1-248-683	2,700 Ω	$\pm 5\%$	ERD14V	carbon
C809	1-105-753-12	0.01 μ F	$\pm 10\%$	100WV	mylar	R331	1-248-671	820 Ω	$\pm 10\%$	ERD14V	carbon
C811	1-113-122	0.05 μ F	$\pm 20\%$	500WV	paper	R332	1-248-657	220 Ω	$\pm 5\%$	ERD14V	carbon
C812	1-113-122	0.05 μ F	$\pm 20\%$	500WV	paper	R333	1-248-703	18k Ω	$\pm 5\%$	ERD14V	carbon
C813	1-113-122	0.05 μ F	$\pm 20\%$	500WV	paper		1-248-704	20k Ω	$\pm 5\%$	ERD14V	carbon
C814	1-113-122	0.05 μ F	$\pm 20\%$	500WV	paper		1-248-705	22k Ω	$\pm 5\%$	ERD14V	carbon
C818	1-101-845	1,000pF	$\pm 100\%$	500WV	ceramic		1-248-706	24k Ω	$\pm 5\%$	ERD14V	carbon
C819	1-101-455	1,000pF	$\pm 20\%$	50WV	ceramic	R334	1-248-666	510 Ω	$\pm 10\%$	ERD14V	carbon
C901	1-121-555	4,000 μ F	$\pm 100\%$	15WV	electrolytic	R335	1-248-666	510 Ω	$\pm 10\%$	ERD14V	carbon
C902	1-119-106	100 μ F	$\pm 20\%$	16WV	electrolytic	R401	1-248-657	220 Ω	$\pm 5\%$	ERD14V	carbon
C903	1-121-555	4,000 μ F	$\pm 100\%$	15WV	electrolytic	R402	1-248-664	430 Ω	$\pm 5\%$	ERD14V	carbon
C904	1-101-003	0.005 μ F	$\pm 100\%$	50WV	ceramic	R403	1-248-706	24k Ω	$\pm 10\%$	ERD14V	carbon
C905	1-101-003	0.005 μ F	$\pm 100\%$	50WV	ceramic	R404	1-248-686	3,600 Ω	$\pm 10\%$	ERD14V	carbon
RESISTORS						R405	1-248-673	1k Ω	$\pm 10\%$	ERD14V	carbon
R301	1-248-629	15 Ω	$\pm 10\%$	ERD14V	carbon	R406	1-248-649	100 Ω	$\pm 10\%$	ERD14V	carbon
R303	1-248-627	12 Ω	$\pm 5\%$	ERD14V	carbon	R407	1-203-892	3,600 Ω	$\pm 5\%$	RD $\frac{1}{4}$ L	carbon
R304	1-248-649	100 Ω	$\pm 10\%$	ERD14V	carbon		1-203-497	3,900 Ω	$\pm 5\%$	RD $\frac{1}{4}$ L	carbon
R305	1-248-659	270 Ω	$\pm 10\%$	ERD14V	carbon		1-203-185	4,700 Ω	$\pm 5\%$	RD $\frac{1}{4}$ L	carbon
R306	1-248-657	220 Ω	$\pm 10\%$	ERD14V	carbon		1-203-186	5,600 Ω	$\pm 5\%$	RD $\frac{1}{4}$ L	carbon
R307	1-248-665	470 Ω	$\pm 10\%$	ERD14V	carbon		1-204-345	5,100 Ω	$\pm 5\%$	RD $\frac{1}{4}$ L	carbon
R308	1-248-656	200 Ω	$\pm 10\%$	ERD14V	carbon		1-203-187	6,800 Ω	$\pm 5\%$	RD $\frac{1}{4}$ L	carbon
R309	1-248-657	220 Ω	$\pm 10\%$	ERD14V	carbon		1-203-189	8,200 Ω	$\pm 5\%$	RD $\frac{1}{4}$ L	carbon
R310	1-248-659	270 Ω	$\pm 10\%$	ERD14V	carbon		1-203-190	10k Ω	$\pm 5\%$	RD $\frac{1}{4}$ L	carbon
R311	1-248-658	240 Ω	$\pm 10\%$	ERD14V	carbon	R408	1-248-694	7,500 Ω	$\pm 10\%$	ERD14V	carbon
R312	1-248-653	150 Ω	$\pm 10\%$	ERD14V	carbon	R409	1-248-685	3,300 Ω	$\pm 10\%$	ERD14V	carbon
R313	1-248-696	9,100 Ω	$\pm 10\%$	ERD14V	carbon	R410	1-248-670	750 Ω	$\pm 10\%$	ERD14V	carbon
R314	1-248-675	1,200 Ω	$\pm 10\%$	ERD14V	carbon	R411	1-248-673	1k Ω	$\pm 10\%$	ERD14V	carbon
R315	1-248-651	120 Ω	$\pm 10\%$	ERD14V	carbon	R412	1-204-345	5,100 Ω	$\pm 5\%$	RD $\frac{1}{4}$ L	carbon
R316	1-246-653	150 Ω	$\pm 10\%$	ERD14T	carbon	R413	1-248-649	100 Ω	$\pm 10\%$	ERD14V	carbon
R317	1-248-646	75 Ω	$\pm 10\%$	ERD14V	carbon	R414	1-248-675	1,200 Ω	$\pm 5\%$	ERD14V	carbon
R318	1-248-680	2k Ω	$\pm 10\%$	ERD14V	carbon	R415	1-248-675	1,200 Ω	$\pm 5\%$	ERD14V	carbon
R319	1-248-655	180 Ω	$\pm 10\%$	ERD14V	carbon	R416	1-248-685	3,300 Ω	$\pm 5\%$	ERD14V	carbon
R320	1-248-690	5,100 Ω	$\pm 10\%$	ERD14V	carbon	R417	1-248-685	3,300 Ω	$\pm 5\%$	ERD14V	carbon
R321	1-248-681	2,200 Ω	$\pm 10\%$	ERD14V	carbon	R418	1-248-641	47 Ω	$\pm 10\%$	ERD14V	carbon
R322	1-248-671	820 Ω	$\pm 10\%$	ERD14V	carbon	R419	1-248-715	56k Ω	$\pm 10\%$	ERD14V	carbon
R323	1-248-687	3,900 Ω	$\pm 10\%$	ERD14V	carbon	R420	1-248-673	1k Ω	$\pm 10\%$	ERD14V	carbon
R324	1-248-665	470 Ω	$\pm 5\%$	ERD14V	carbon	R501	1-246-697	10k Ω	$\pm 5\%$	ERD14T	carbon
R325	1-246-677	1,500 Ω	$\pm 10\%$	ERD14T	carbon	R502	1-246-712	43k Ω	$\pm 5\%$	ERD14T	carbon
R326	1-248-706	24k Ω	$\pm 5\%$	ERD14V	carbon		1-246-713	47k Ω	$\pm 5\%$	ERD14T	carbon
	1-248-707	27k Ω	$\pm 5\%$	ERD14V	carbon		1-246-714	51k Ω	$\pm 5\%$	ERD14T	carbon
	1-248-708	30k Ω	$\pm 5\%$	ERD14V	carbon		1-246-715	56k Ω	$\pm 5\%$	ERD14T	carbon
	1-248-710	36k Ω	$\pm 5\%$	ERD14V	carbon		1-246-716	62k Ω	$\pm 5\%$	ERD14T	carbon
	1-248-711	39k Ω	$\pm 5\%$	ERD14V	carbon		1-246-717	68k Ω	$\pm 5\%$	ERD14T	carbon
	1-248-712	43k Ω	$\pm 5\%$	ERD14V	carbon	R503	1-246-651	120 Ω	$\pm 5\%$	ERD14T	carbon
	1-248-713	47k Ω	$\pm 5\%$	ERD14V	carbon	R504	1-246-690	5,100 Ω	$\pm 5\%$	ERD14T	carbon
R327	1-248-714	51k Ω	$\pm 5\%$	ERD14V	carbon	R506	1-246-725	150k Ω	$\pm 5\%$	ERD14T	carbon
	1-248-715	56k Ω	$\pm 5\%$	ERD14V	carbon	R507	1-246-679	1,800 Ω	$\pm 5\%$	ERD14T	carbon
R327	1-248-700	13k Ω	$\pm 5\%$	ERD14V	carbon	R509	1-246-714	51k Ω	$\pm 5\%$	ERD14T	carbon
						R551	1-246-697	10k Ω	$\pm 5\%$	ERD14T	carbon

× : to be selected

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>				<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>			
R552	1-246-697	10k Ω	$\pm 5\%$	ERD14T	carbon	R804	1-246-662	360 Ω	$\pm 5\%$	ERD14T	carbon
R553	1-246-679	1,800 Ω	$\pm 5\%$	ERD14T	carbon	R806	1-246-697	10k Ω	$\pm 5\%$	ERD14T	carbon
R554	1-246-612	3 Ω	$\pm 5\%$	ERD14T	carbon	R807	1-246-691	5,600 Ω	$\pm 5\%$	ERD14T	carbon
R555	1-246-673	6,800 Ω	$\pm 5\%$	ERD14T	carbon	R808	1-246-694	7,500 Ω	$\pm 5\%$	ERD14T	carbon
R556	1-246-675	1,200 Ω	$\pm 5\%$	ERD14T	carbon	R811	1-202-621	100k Ω	$\pm 10\%$	RC $^{1/2}$	composition
R557	1-246-641	47 Ω	$\pm 5\%$	ERD14T	carbon	R812	1-202-621	100k Ω	$\pm 10\%$	RC $^{1/2}$	composition
R558	1-246-655	180 Ω	$\pm 5\%$	ERD14T	carbon	R813	1-202-649	1.5M Ω	$\pm 10\%$	RC $^{1/2}$	composition
R559	1-246-659	270 Ω	$\pm 5\%$	ERD14T	carbon	R814	1-246-732	300k Ω	$\pm 5\%$	ERD14T	carbon
R560	1-246-675	1,200 Ω	$\pm 5\%$	ERD14T	carbon	R901	1-201-676	750k Ω	$\pm 10\%$	RC $^{1/2}$ L	composition
R561	1-246-612	3 Ω	$\pm 5\%$	ERD14T	carbon	R902	1-206-056	120 Ω	$\pm 10\%$	2W	metal oxide
R562	1-246-618	5.1 Ω	$\pm 5\%$	ERD14T	carbon						
R563	1-246-631	18 Ω	$\pm 5\%$	ERD14T	carbon						
R564	1-246-655	180 Ω	$\pm 5\%$	ERD14T	carbon						
R601	1-246-642	51 Ω	$\pm 5\%$	ERD14T	carbon	VR301	1-221-998	500 Ω -B	adjustable	(AGC)	
R602	1-246-656	200 Ω	$\pm 5\%$	ERD14T	carbon	VR501	1-222-335	250k Ω -B	variable	(Brightness)	
R603	1-246-697	10k Ω	$\pm 5\%$	ERD14T	carbon	VR502	1-222-337	3k Ω -C	variable	(Contrast)	
R604	1-246-718	100k Ω	$\pm 5\%$	ERD14T	carbon	VR551	1-222-340	5k Ω -D	variable (with SW)	(Volume)	
R605	1-246-669	680 Ω	$\pm 5\%$	ERD14T	carbon	VR601	1-222-184	1k Ω -B	variable	(Hor. Hold)	
R606	1-246-647	82 Ω	$\pm 5\%$	ERD14T	carbon	VR701	1-222-336	2k Ω -B	variable	(Ver. Hold)	
R607	1-246-688	4,300 Ω	$\pm 5\%$	ERD14T	carbon	VR702	1-221-349	5k Ω -B	adjustable	(Ver. Linearity)	
R608	1-246-685	3,300 Ω	$\pm 5\%$	ERD14T	carbon	VR703	1-221-349	5k Ω -B	adjustable	(Ver. Height)	
R609	1-250-873	1k Ω	$\pm 5\%$	RD12T	carbon	VR801	1-221-351	600k Ω -B	adjustable	(Focus)	
R610	1-246-677	1,500 Ω	$\pm 5\%$	ERD14T	carbon						
R611	1-246-694	7,500 Ω	$\pm 5\%$	ERD14T	carbon						
R613	1-246-667	560 Ω	$\pm 5\%$	ERD14T	carbon						
R614	1-246-662	360 Ω	$\pm 5\%$	ERD14T	carbon						
R615	1-246-664	430 Ω	$\pm 5\%$	ERD14T	carbon						
R616	1-246-684	3k Ω	$\pm 5\%$	ERD14T	carbon						
R617	1-246-680	2k Ω	$\pm 5\%$	ERD14T	carbon						
R701	1-246-663	390 Ω	$\pm 5\%$	ERD14T	carbon						
R702	1-246-688	4,300 Ω	$\pm 5\%$	ERD14T	carbon						
R703	1-246-677	1,500 Ω	$\pm 5\%$	ERD14T	carbon						
R704	1-246-629	15 Ω	$\pm 5\%$	ERD14T	carbon						
R705	1-246-688	4,300 Ω	$\pm 5\%$	ERD14T	carbon						
R706	1-246-688	4,300 Ω	$\pm 5\%$	ERD14T	carbon						
R707	1-246-696	9,100 Ω	$\pm 5\%$	ERD14T	carbon						
R708	1-246-680	2k Ω	$\pm 5\%$	ERD14T	carbon						
R709	1-246-680	2k Ω	$\pm 5\%$	ERD14T	carbon						
R710	1-246-695	8,200 Ω	$\pm 5\%$	ERD14T	carbon						
* R711	1-246-678	1,600 Ω	$\pm 5\%$	ERD14T	carbon						
	1-246-679	1,800 Ω	$\pm 5\%$	ERD14T	carbon						
	1-246-680	2k Ω	$\pm 5\%$	ERD14T	carbon						
	1-246-681	2,200 Ω	$\pm 5\%$	ERD14T	carbon						
R712	1-246-660	300 Ω	$\pm 5\%$	ERD14T	carbon						
R713	1-207-018	3 Ω	$\pm 5\%$	RW $^{1/4}$ RL	wire wound						
R714	1-207-018	3 Ω	$\pm 5\%$	RW $^{1/4}$ RL	wire wound						
R715	1-246-656	200 Ω	$\pm 5\%$	ERD14T	carbon						
R716	1-246-702	15k Ω	$\pm 5\%$	ERD14T	carbon						
R801	1-246-673	1k Ω	$\pm 5\%$	ERD14T	carbon						
R803	1-246-649	100 Ω	$\pm 5\%$	ERD14T	carbon						

* : to be selected

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
L203	1-425-595	RF coil
L204	1-425-596	RF coil
L205	1-425-597	RF coil
L207	1-403-544	IFT transformer
L208	1-425-339	coil, compensating 43W
L211	1-407-096	7 μ F, micro inductor
L213	1-421-210	choke coil
L214	1-421-210	choke coil
L215	1-423-147	coil with core
L216	1-423-149	coil with core

CAPACITORS

C201	1-101-564	100pF	$\pm 5\%$ 50WV ceramic
C202	1-101-561	30pF	$\pm 5\%$ 50WV ceramic
C204	1-101-559	15pF	$\pm 5\%$ 50WV ceramic
C205	1-101-561	30pF	$\pm 5\%$ 50WV ceramic
C206	1-101-561	30pF	$\pm 5\%$ 50WV ceramic
C207	1-101-587	1.3pF	± 0.2 pF 50WV ceramic
C208	1-102-813	13pF	$\pm 5\%$ 50WV ceramic
C210	1-101-072	0.01 μ F	$\pm 80\%$ 50WV ceramic
C212	1-101-559	15pF	$\pm 5\%$ 50WV ceramic
C213	1-101-865	22pF	$\pm 5\%$ 50WV ceramic
C215	1-101-560	20pF	$\pm 5\%$ 50WV ceramic
C216	1-101-564	100pF	$\pm 5\%$ 50WV ceramic
C217	1-101-072	0.01 μ F	$\pm 80\%$ 50WV ceramic
C218	1-101-576	1.5pF	± 0.2 pF 50WV ceramic

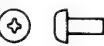
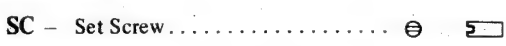
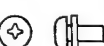

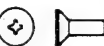
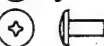
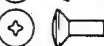
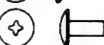
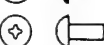

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
C219	1-101-560	20pF $\pm 5\%$ 50WV ceramic
C220	1-102-988	4pF ± 0.2 pF 50WV ceramic
C221	1-102-988	4pF ± 0.2 pF 50WV ceramic
C222	1-102-143	2pF ± 0.2 pF 50WV ceramic
C223	1-101-560	20pF $\pm 5\%$ 50WV ceramic
C225	1-102-455	0.001 μ F $\pm 20\%$ 50WV ceramic
C226	1-102-144	25pF $\pm 5\%$ 50WV ceramic
C227	1-101-584	2pF ± 0.2 pF 50WV ceramic
C228	1-101-072	0.01 μ F $\pm 80\%$ 50WV ceramic
C230	1-102-078	0.0018 μ F $\pm 200\%$ 50WV feed through
C231	1-102-078	0.0018 μ F $\pm 200\%$ 50WV feed through
C235	1-105-839-12	0.033 μ F $\pm 20\%$ 50WV mylar

RESISTORS

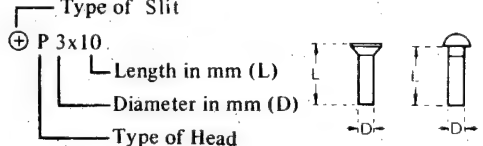
R203	1-244-462	360 Ω	$\pm 5\%$ RD $\frac{1}{8}$ P carbon
R204	1-244-452	130 Ω	$\pm 5\%$ RD $\frac{1}{8}$ P carbon
R205	1-244-493	6,800 Ω	$\pm 5\%$ RD $\frac{1}{8}$ P carbon
R206	1-244-485	3,300 Ω	$\pm 5\%$ RD $\frac{1}{8}$ P carbon
R207	1-244-473	1k Ω	$\pm 5\%$ RD $\frac{1}{8}$ P carbon
R208	1-244-487	3,900 Ω	$\pm 5\%$ RD $\frac{1}{8}$ P carbon
R209	1-244-480	2k Ω	$\pm 5\%$ RD $\frac{1}{8}$ P carbon
R210	1-244-494	7,500 Ω	$\pm 5\%$ RD $\frac{1}{8}$ P carbon
R211	1-244-485	3,300 Ω	$\pm 5\%$ RD $\frac{1}{8}$ P carbon
R212	1-244-497	10k Ω	$\pm 5\%$ RD $\frac{1}{8}$ P carbon
R213	1-244-497	10k Ω	$\pm 5\%$ RD $\frac{1}{8}$ P carbon

When ordering replacement parts, you should use **PART NUMBER** listed on the **Parts List** or shown in the **EXPLODED VIEW**.
The reference number should not be used for ordering purposes.

Hardware Nomenclature

P — Pan Head Screw		SC — Set Screw	
PS — Pan Head Screw with Spring Washer		E — Retaining Ring (E Washer)	
K — Flat Countersunk Head Screw		W — Washer	
B — Binding Head Screw		SW — Spring Washer	
RK — Oval Countersunk Head Screw		LW — Lock Washer	
T — Truss Head Screw		N — Nut	
R — Round Head Screw			
F — Flat Fillister Head Screw			

— Example —



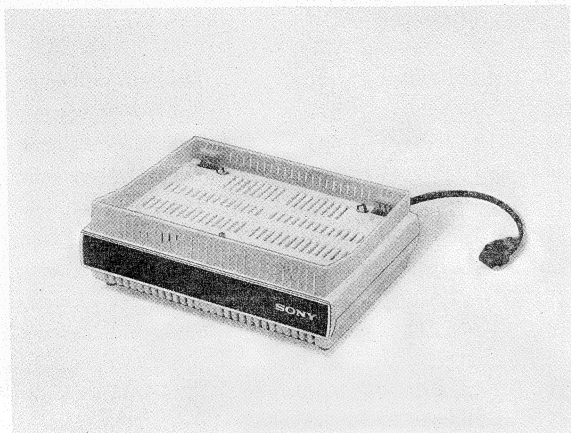
 Type of Slit: P 3x10

 Length in mm (L):

 Diameter in mm (D):

 Type of Head:

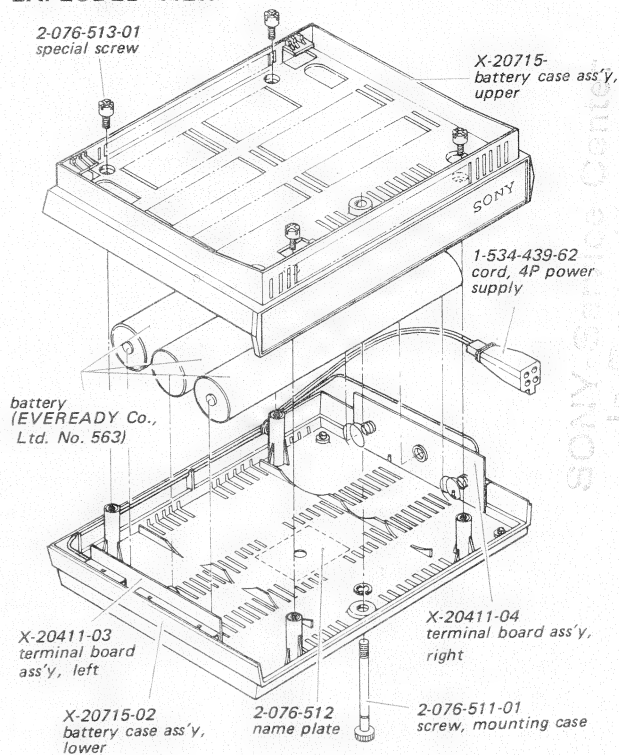
TV-510U BATTERY PACK



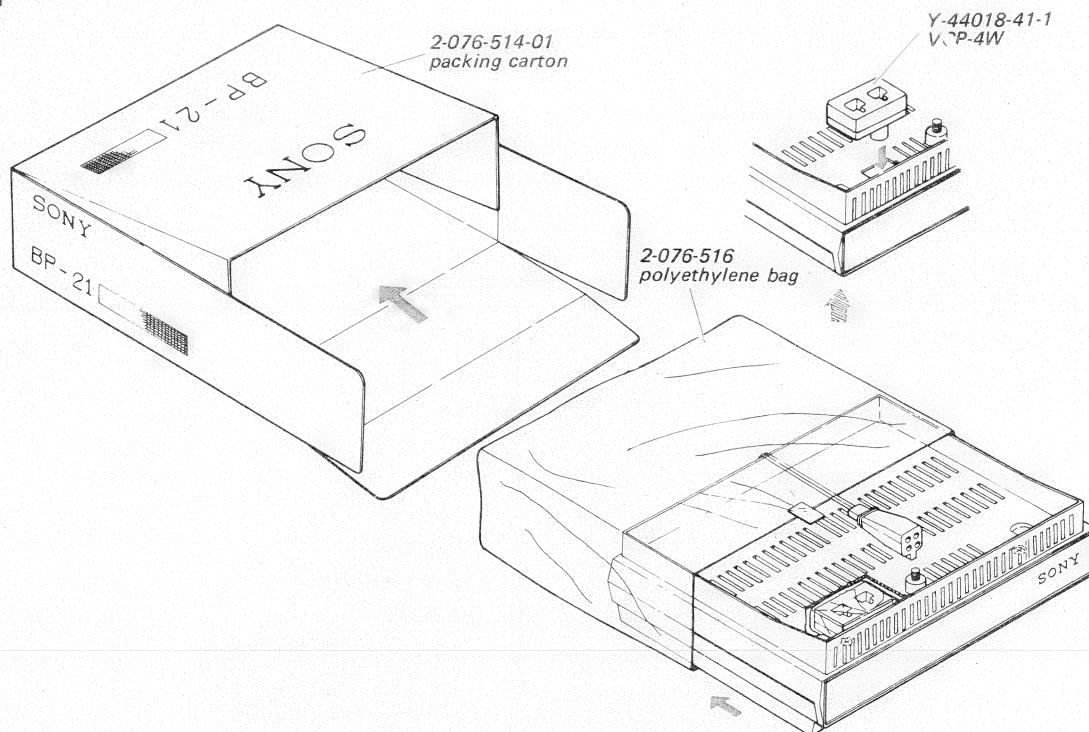
SPECIFICATIONS

Final Discharge Time:	2 hours
Full Charge Time:	12 hours
Batteries:	EVEREADY No. 563
Dimensions:	8" (W) x 6 $\frac{3}{8}$ " (D) x 2 $\frac{6}{8}$ " (H) (204 mm x 161 mm x 71 mm)
Weight:	15 oz (400 g)

EXPLODED VIEW



PACKING



SONY CORPORATION

SONY CORPORATION

COMPLETE SPARE PARTS LIST CHANGE NOTICE

MODEL TV-510U (USA & CANADA Model)

(Production change, ~~correction, addition, deletion~~)

is done onto this parts list.

Replace the former copy with this new one. Refer to
this parts list when you order the service parts.

SONY®

Complete Spare Parts List

Model **TV-510U**

U. S. A. MODEL

CANADA MODEL

"IMPORTANT"

When ordering parts, please do not fail to furnish us the following:

1. Part Number
2. Model Name
3. Description as mentioned in this parts list

We are now using EDPS (Electronic Data Processing System) in all the departments concerned, for procurement, inventory control, packing, warehousing, etc. Your orders are processed mainly from the PART NUMBERS referred by you. Incorrect part numbers, therefore, will result in incorrect parts shipment. To assure prompt shipment of correct parts, your cooperation will be appreciated.

NOTE:

Prices are subject to change without notice.

SONY CORPORATION

COMPLETE SPARE PARTS LIST FOR TV-510U

(Canada and USA Model)

OCTOBER, 1971

<u>Part No.</u>	<u>Description</u>	<u>Unit Price</u>
I. <u>MECHANICAL PARTS</u>		
X-40147-01-1	Cabinet Ass'y, front -----	\$0.73
X-40147-02	Protector Ass'y -----	0.90
X-40147-03	Carrying Handle Ass'y -----	0.20
X-40147-04	Knob Ass'y, channel selector -----	0.17
X-40147-05	Knob Ass'y, fine tuning -----	0.15
X-40147-06	UHF Dial Ass'y -----	0.09
X-40147-07	Knob Ass'y, control (A) -----	0.12
X-40147-08	Knob Ass'y, control (B)' -----	0.04
X-40147-09	Bushing Ass'y, insulating -----	0.04
X-43020-07	Knob Ass'y, uhf dial -----	0.12
2-825-001	Spacer, transistor -----	0.01
4-003-346	Clamp, antenna -----	0.04
4-004-127	Cushion, picture tube -----	0.08
4-005-422	Grounding Spring -----	0.02
4-005-615	Cover, terminal -----	0.01
4-006-238-03	Screw, tuner mounting -----	0.01
4-006-255	Terminal Pin -----	0.01
4-008-361	Heat Sink, TO-1 -----	0.02
4-009-536	SIF Shield Case, upper -----	0.02
◆ 4-015-728	SIF Shield Case, upper -----	0.03
4-009-537	SIF Shield Case, lower -----	0.02
◆ 4-015-729	SIF Shield Case, lower -----	0.02
4-009-538	Fiber Shield Case -----	0.02
4-010-012	Cylindrical Shield, micro inductor -----	0.03
4-012-812	VIF Shield Case, upper -----	0.03
◆ 4-015-730	VIF Shield Case, upper -----	0.02
4-010-506	VIF Shield Case, lower -----	0.01

Note: The components indicated with the symbol ◆ are used for the following sets;

USA Model; Serial No. 48001 and later
CANADA Model; Serial No. 10201 and later

<u>Part No.</u>	<u>Description</u>	<u>Unit Price</u>
◆ 4-015-731	VIF Shield Case, lower -----	\$0.01
4-011-434-31	Knob, control C -----	0.01
4-014-731-01	Nameplate -----	0.02
4-014-732	Connecting Plate, battery case -----	0.03
4-014-734	Bracket, picture tube mounting -----	0.12
4-014-735	Cabinet, rear -----	0.54
4-014-736	Shielder, heat -----	0.03
4-014-737	Chassis -----	0.38
4-014-738	Bracket, tuner mounting -----	0.07
4-014-739	Bracket, power plug mounting -----	0.07
4-014-740	Heat Sink, deflection circuit board -----	0.03
4-014-741	Shield Case, audio circuit board -----	0.02
4-014-742	Clamp, electrolytic capacitor mounting -----	0.06
4-014-743	Bracket A, volume control mounting -----	0.01
4-014-744	Bracket B, volume control mounting -----	0.04
4-014-745	Bracket C, volume control mounting -----	0.03
4-010-017-02	Caution Label, high voltage -----	0.01
4-014-753	Ornamental Plate -----	0.14
4-014-754	Shield Plate -----	0.01

II. MOUNTING HARDWARES

(per 100)

7-682-125-01	Screw, machine phill P 2 x 5 -----	0.10/100
7-682-146-01	Screw, machine phill P 3 x 5 -----	0.12/100
7-682-198-01	Screw, machine phill P 3 x 50 -----	0.62/100
7-682-149-13	Screw, machine phill P 3 x 10 -----	0.32/100
7-682-248-04	Screw, machine phill K 3 x 8 -----	0.48/100
7-621-559-69	Screw, machine phill K 2.6 x 12 -----	0.69/100
7-621-722-57	Screw, tapping phill BV 3 x 8 -----	0.23/100
7-621-722-63	Screw, tapping phill BV 3 x 10 -----	0.24/100
7-621-724-32	Screw, tapping phill R 4 x 8 -----	0.38/100
7-621-724-44	Screw, tapping phill R 4 x 10 -----	0.40/100
7-684-013-01	Nut 3 ϕ -----	0.28/100
7-622-107-05	Nut 2.6 ϕ -----	0.27/100
7-623-108-17	Washer 3 ϕ -----	0.10/100
7-623-110-15	Washer 4 ϕ -----	0.22/100
7-623-207-22	Washer, spring 2.6 ϕ -----	0.05/100
7-623-208-22	Washer, spring 3 ϕ -----	0.06/100
7-623-408-06	Washer, external teeth 3 ϕ -----	0.19/100
7-623-510-21	Tug Washer 4 ϕ -----	0.66/100

2/18 (TV-510U Canada and USA Model)

(TV-5-5R)

<u>Ref.</u> <u>No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Unit</u> <u>Price</u>
---------------------------	-----------------	--------------------	-----------------------------

III. ELECTRICAL PARTS

Note: The components indicated with the symbol ♦ are used for the following sets;

USA Model: Serial No.48001 and later
CANADA Model: Serial No.10201 and later

General

1-463-008	UHF Tuner Ass'y (BT-181) -----	\$4.20
8-980-132-15	VHF Tuner Ass'y (BT-443Wu) -----	5.19
8-980-140-25	Signal Circuit Board (BC), complete -----	8.17
♦ 8-980-191-25	Signal Circuit Board (BC), complete -----	7.41
8-980-168-35	Deflection Circuit Board (EF), complete -----	10.51
8-980-168-45	Sound Circuit Board (S), complete -----	2.31
8-980-168-55	Power Supply Circuit Board (P), complete -----	0.94

Semiconductors

Q301	Transistor,	2SC657 -----	0.30
Q302	Transistor,	2SC657 -----	0.30
Q303	Transistor,	2SC629 -----	0.25
Q304	Transistor,	2SB382 -----	0.21
♦ Q304	Transistor,	2SA678 -----	0.17
Q305	Transistor,	2SB382 -----	0.21
♦ Q305	Transistor,	2SA677 -----	0.15
Q401	Transistor,	2SC403A -----	0.14
Q402	Transistor,	2SC403A -----	0.14
♦ Q402	-	-	-
Q403	Transistor,	2SC403A -----	0.14
♦ Q403	-	-	-
Q501	Transistor,	2SC352A -----	0.38
Q551	Transistor,	2SC633A -----	0.14
Q552	Transistor,	2SB383 -----	0.68
Q553	Transistor,	2SD72 -----	0.39
Q554	Transistor,	2SB382 -----	0.21
Q601	Transistor,	2SA610 -----	0.21

3/18 (TV-510U Canada and USA Model)

(VR-5-5R)

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Unit Price</u>
Q701		Transistor, 2SC633A -----	\$0.14
Q702		Transistor, 2SB382 -----	0.21
Q703		Transistor, 2SD29 -----	0.42
Q801		Transistor, 2SB324 -----	0.28
Q802		Transistor, 2SC756 -----	0.42
D301		Diode, 1T261 -----	0.05
D302		Diode, 1T22 -----	0.05
◆ D302		Diode, 1T22A -----	0.05
D401		Diode, 1T243 -----	0.07
◆ D401		Diode, 1T374 -----	0.11
D402		Diode, 1T23 -----	0.05
◆ D402		-	
D403		Diode, 1T23 -----	0.05
◆ D403		-	
D501		Diode, 1T22A -----	0.05
D601		Diode, 1T22A -----	0.05
D602		Diode, 1T22A -----	0.05
D701		Diode, 1T22A -----	0.05
D702		Diode, 1T22A -----	0.05
D801		Diode, HFSD1Z -----	0.12
D802		Diode, 10D2 -----	0.11
D803		Diode, UFSD1A -----	0.21
D901		Diode, 10D2 -----	0.11
D902		Diode, 10D2 -----	0.11
D903		Diode, 10D2 -----	0.11
Th301	8-690-003	Thermistor, S90 -----	0.03
Th302	8-690-006	Thermistor, S1250 -----	0.03
Th551	8-691-001	Thermistor, CS-120 -----	0.06
IC401	8-759-101-60	IC, μ PC-16C -----	1.29

4/18 (TV-510U Canada and USA Model)

(VR-5-5R)

<u>Ref.</u> <u>No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Unit</u> <u>Price</u>
<u>Coils</u>			
L7	1-407-178	1 μ H micro inductor -----	\$0.04
L301	1-409-160-31	41.25 MHz trap coil -----	0.09
L302	1-409-160-21	47.25 MHz trap coil -----	0.09
L303	1-409-160-21	39.75 MHz trap coil -----	0.09
L304	1-409-170	33.75 MHz trap coil -----	0.12
L305	1-407-178	1 μ H micro inductor -----	0.04
◆ L305	1-407-520	0.6 μ H micro inductor -----	0.08
L306	1-407-178	1 μ H micro inductor -----	0.04
◆ L306	1-407-520	0.6 μ H micro inductor -----	0.08
L307	1-407-157	10 μ H micro inductor -----	0.03
◆ L307	1-407-178	1 μ H micro inductor -----	0.04
L308	1-407-184	3.3 μ H micro inductor -----	0.05
◆ L308	1-407-157	10 μ H micro inductor -----	0.03
L309	1-407-173	220 μ H micro inductor -----	0.03
◆ L309	1-407-184	3.3 μ H micro inductor -----	0.05
L310	1-407-184	3.3 μ H micro inductor -----	0.05
◆ L310		-	
L311	1-407-178	1 μ H micro inductor -----	0.04
◆ L311	1-407-184	3.3 μ H micro inductor -----	0.05
L401	1-407-178	1 μ H micro inductor -----	0.04
L402	1-409-036	4.5 MHz trap coil -----	0.10
◆ L402	1-409-179	4.5 MHz trap coil -----	0.11
L403	1-407-187	5.6 μ H micro inductor -----	0.04
◆ L403		-	
L501	1-407-172	180 μ H micro inductor -----	0.03
L601	1-407-165	47 μ H micro inductor -----	0.03
L701	1-421-127	Choke Coil, vertical output -----	0.34
L801	1-421-013-11	25 μ H filter inductor -----	0.04
L803	1-413-012-12	Coil, horizontal stabilizing -----	0.14
L901	1-421-150-12	Filter Choke Coil, power rectifier -----	0.36

5/18 (TV-510U Canada and USA Model)

(VR-5-5R)

Ref. No.	Part No.	Description	Unit Price
<u>Transformers</u>			
T302	1-403-701	Transformer, video i-f; VIFT-2 -----	\$0.12
T303	1-403-702	Transformer, video i-f; VIFT-3 -----	0.12
◆ T303	1-403-727	Transformer, video i-f; VIFT-3 -----	0.12
T401	1-403-348	Transformer, sound i-f; SIFT-1 -----	0.12
◆ T401	1-403-362	Transformer, sound i-f; SIFT-1 -----	0.12
T402	1-403-349	Transformer, sound i-f; SIFT-2 -----	0.13
◆ T402	1-403-361	Transformer, sound i-f; SIFT-2 -----	0.12
T403	1-403-313	Transformer, sound i-f; SIFT-3 -----	0.27
◆ T403	1-403-361	Transformer, sound i-f; SIFT-3 -----	0.12
T701	1-435-008-12	Transformer, vertical osc.; VBT -----	0.14
	1-435-008-11	Transformer, vertical osc.; VBT -----	0.14
T801	1-435-016-11	Transformer, horizontal osc.; HBT -----	0.16
T802	1-437-004-11	Transformer, horizontal drive; HDT -----	0.21
T803	1-453-625	High Voltage Cage Block; HOT -----	3.12
T901	1-441-618	Transformer, power; PT -----	1.28
<u>Capacitors</u>			
C301	1-101-957	7 pF ± 0.5 pF 50 WV ceramic -----	0.02
◆ C301	1-102-858	10 pF ± 0.5 pF 50 WV ceramic -----	0.02
C302	1-101-969	5 pF ± 0.5 % 50 WV ceramic -----	0.03
◆ C302	1-102-882	4 pF ± 0.25 pF 50 WV ceramic -----	0.02
C303	1-101-969	5 pF ± 0.5 % 50 WV ceramic -----	0.03
C304	1-101-832	9 pF ± 0.2 pF 50 WV ceramic -----	0.01
◆ C304	1-102-856	5 pF ± 0.5 pF 50 WV ceramic -----	0.03
C305	1-101-583	60 pF ± 5 % 50 WV ceramic -----	0.02
◆ C305	1-102-664	9 pF ± 0.5 pF 50 WV ceramic -----	0.02
C306	1-101-057	80 pF ± 5 % 50 WV ceramic -----	0.02
◆ C306	1-102-856	5 pF ± 0.5 pF 50 WV ceramic -----	0.03
C307	1-101-892	82 pF ± 5 % 50 WV ceramic -----	0.02
◆ C307		-	
C308	1-101-003	0.0047 μ F ± 100 -0 % 50 WV ceramic -----	0.02
◆ C308	1-102-863	82 pF ± 5 % 50 WV ceramic -----	0.03
C309	1-101-003	0.0047 μ F ± 100 -0 % 50 WV ceramic -----	0.02
C310	1-101-961	12 pF ± 5 % 50 WV ceramic -----	0.02
◆ C310	1-101-003	0.0047 μ F ± 100 -0 % 50 WV ceramic -----	0.02

6/18 (TV-510U Canada and USA Model)

(VR-5-5R)

<u>Ref.</u> <u>No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Unit</u> <u>Price</u>
C311	1-101-003	0.0047 μ F +100 -0 % 50 WV ceramic -----	\$0.02
C312	1-101-455	0.001 μ F \pm 20 % 50 WV ceramic -----	0.02
◆ C312	1-101-003	0.0047 μ F +100 -0 % 50 WV ceramic -----	0.02
C313	1-101-003	0.0047 μ F +100 -0 % 50 WV ceramic -----	0.02
◆ C313	1-102-959	22 pF \pm 5 % 50 WV ceramic -----	0.01
C314	1-101-961	12 pF \pm 5 % 50 WV ceramic -----	0.02
◆ C314	1-101-886	62 pF \pm 5 % 50 WV ceramic -----	0.01
C315	1-101-003	0.0047 μ F +100 -0 % 50 WV ceramic -----	0.02
C316	1-101-003	0.0047 μ F +100 -0 % 50 WV ceramic -----	0.02
C317	1-101-455	0.001 μ F \pm 20 % 50 WV ceramic -----	0.02
◆ C317	1-101-003	0.0047 μ F +100 -0 % 50 WV ceramic -----	0.02
C318	1-101-940	2.5 pF \pm 10 % 50 WV ceramic -----	0.02
◆ C318	1-102-959	22 pF \pm 5 % 50 WV ceramic -----	0.01
C319	1-101-003	0.0047 μ F +100 -0 % 50 WV ceramic -----	0.02
◆ C319	1-102-965	39 pF \pm 5 % 50 WV ceramic -----	0.01
C320	1-121-398	10 μ F +100 -0 % 25 WV electrolytic -	0.03
◆ C320	1-101-834	1.8 pF \pm 0.2 pF 50 WV ceramic -----	0.02
C321	1-101-003	0.0047 μ F +100 -0 % 50 WV ceramic -----	0.02
C322	-	-	-
◆ C322	1-121-471	10 μ F +100 -10 % 16 WV electrolytic -	0.04
C323	1-101-003	0.0047 μ F +100 -0 % 50 WV ceramic -----	0.02
C324	1-101-587	1.3 pF \pm 0.2 pF 50 WV ceramic -----	0.03
◆ C324	1-101-003	0.0047 μ F +100 -0 % 50 WV ceramic -----	0.02
C325	-	-	-
C326	-	-	-
◆ *C326	1-101-587	1.3 pF \pm 0.2 pF 50 WV ceramic -----	0.03
◆ *C326	1-101-576	1.5 pF \pm 0.2 pF 50 WV ceramic -----	0.02
◆ *C326	1-101-834	1.8 pF \pm 0.2 pF 50 WV ceramic -----	0.02
◆ *C326	1-102-935	2 pF \pm 0.25 pF 50 WV ceramic -----	0.01
◆ *C326	1-101-574	2.5 pF \pm 0.2 pF 50 WV ceramic -----	0.01
◆ *C326	1-102-936	3 pF \pm 0.25 pF 50 WV ceramic -----	0.01
C327	1-101-955	5 pF \pm 0.5 pF 50 WV ceramic -----	0.02
◆ C327	-	-	-
C328	1-101-003	0.0047 μ F +100 -0 % 50 WV ceramic -----	0.02
◆ C328	-	-	-
C329	1-121-402	33 μ F +100 -0 % 10 WV electrolytic -	0.05
◆ C329	1-101-003	0.0047 μ F +100 -0 % 50 WV ceramic -----	0.02
C330	1-101-006	0.047 μ F +100 -0 % 50 WV ceramic -----	0.03
◆ C330	1-121-402	33 μ F +100 -10 % 16 WV electrolytic -	0.05
C331	1-127-023	1 μ F \pm 20 % 10 WV electrolytic (alox) -----	0.06
◆ C331	1-102-942	5 pF \pm 0.5 pF 50 WV ceramic -----	0.01

* Mark to be selected.

7/18 (TV-510U Canada and USA Model)

(VR-5-5R)

Ref. No.	Part No.	Description	Unit Price
C332	1-105-669-12	0.0047 μ F ± 10 %	50 WV mylar ----- \$0.02
◆ C332	1-101-004	0.01 μ F ± 100 -0 %	50 WV ceramic ----- 0.01
C333	1-127-024	2.2 μ F ± 20 %	10 WV electrolytic (alox) ----- 0.07
C333	1-121-421	220 μ F ± 100 -10 %	16 WV electrolytic - 0.08
C334	1-101-958	8 pF ± 0.5 pF	50 WV ceramic ----- 0.01
◆ C334	1-101-004	0.01 μ F ± 100 -0 %	50 WV ceramic ----- 0.01
*C335	1-101-837	0.5 pF ± 0.2 pF	50 WV ceramic ----- 0.02
*C335	1-101-586	0.8 pF ± 0.2 pF	50 WV ceramic ----- 0.02
*C335	1-101-163	1 pF ± 20 %	50 WV ceramic ----- 0.02
◆ C335	-	-	-
C336	-	-	-
◆ C336	1-127-023	1 μ F ± 20 %	10 WV electrolytic (alox) ----- 0.06
C337	1-127-022	0.47 μ F ± 20 %	10 WV electrolytic (alox) ----- 0.06
◆ C337	1-105-709-12	0.0047 μ F ± 10 %	100 WV mylar ----- 0.02
C338	-	-	-
◆ C338	1-127-024	2.2 μ F ± 20 %	10 WV electrolytic (alox) ----- 0.07
C339	-	-	-
◆ C339	1-127-022	0.47 μ F ± 20 %	10 WV electrolytic (alox) ----- 0.06
C340	-	-	-
◆ C340	1-102-978	220 pF ± 5 %	50 WV ceramic ----- 0.02
C341	1-101-455	0.001 μ F ± 20 %	50 WV ceramic ----- 0.02
◆ C341	1-101-003	0.0047 μ F ± 100 -0 %	50 WV ceramic ----- 0.02
C342	1-101-969	5 pF ± 0.5 pF	50 WV ceramic ----- 0.03
◆ C342	1-101-003	0.0047 μ F ± 100 -0 %	50 WV ceramic ----- 0.02
C401	1-103-610	240 pF ± 5 %	50 WV polystyrene -- 0.03
◆ C401	1-103-663	330 pF ± 10 %	50 WV polystyrene -- 0.03
C402	1-103-663	330 pF ± 10 %	50 WV polystyrene -- 0.03
◆ C402	-	-	-
C403	1-101-896	100 pF ± 5 %	50 WV ceramic ----- 0.02
◆ C403	1-101-004	0.01 μ F ± 100 -0 %	50 WV ceramic ----- 0.01
C404	1-101-004	0.01 μ F ± 100 -0 %	50 WV ceramic ----- 0.01
C405	1-101-956	6 pF ± 0.5 pF	50 WV ceramic ----- 0.02
◆ C405	1-101-004	0.01 μ F ± 100 -0 %	50 WV ceramic ----- 0.01
C406	1-101-004	0.01 μ F ± 100 -0 %	50 WV ceramic ----- 0.01
C407	-	-	-
◆ C407	1-102-100	0.0022 μ F ± 20 %	50 WV ceramic ----- 0.02

* Mark to be selected.

8/18 (TV-510U Canada and USA Model)

(VR-5-5R)

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>				<u>Unit Price</u>
C408	1-101-004	0.01 μ F	+100 -0 %	50 WV	ceramic -----	\$0.01
◆ C408	1-101-118	0.01 μ F	\pm 20 %	50 WV	ceramic -----	0.02
C409	1-101-455	0.001 μ F	\pm 20 %	50 WV	ceramic -----	0.02
◆ C409	1-102-678	100 pF	\pm 5 %	50 WV	ceramic -----	0.03
C410	1-101-958	8 pF	\pm 5 pF	50 WV	ceramic -----	0.01
◆ C410		-				
C411	1-101-004	0.01 μ F	+100 -0 %	50 WV	ceramic -----	0.01
C412	1-101-006	0.04 μ F	+100 -0 %	50 WV	ceramic -----	0.03
◆ C412	1-121-471	10 μ F	+100 -10 %	16 WV	electrolytic -	0.04
C413	1-101-115	30 pF	\pm 5 %	50 WV	ceramic -----	0.02
◆ C413	1-101-004	0.01 μ F	+100 -0 %	50 WV	ceramic -----	0.01
C414	1-101-571	140 pF	\pm 5 %	50 WV	ceramic -----	0.04
◆ C414	1-101-004	0.01 μ F	+100 -0 %	50 WV	ceramic -----	0.01
C415	1-101-423	500 pF	\pm 20 %	50 WV	ceramic -----	0.02
◆ C415	1-101-896	100 pF	\pm 5 %	50 WV	ceramic -----	0.02
C416	1-101-423	500 pF	\pm 20 %	50 WV	ceramic -----	0.02
◆ C416		-				
C417	1-121-398	10 μ F	+100 -0 %	25 WV	ceramic -----	0.03
◆ C417		-				
C418	1-101-118	0.01 μ F	\pm 20 %	50 WV	ceramic -----	0.02
◆ C418		-				
C419	1-101-118	0.01 μ F	\pm 20 %	50 WV	ceramic -----	0.02
◆ C419		-				
C420	1-101-002	0.002 μ F	+100 -0 %	50 WV	ceramic -----	0.02
◆ C420		-				
C421		-				
C422	1-101-006	0.047 μ F	+100 -0 %	50 WV	ceramic -----	0.03
◆ C422		-				
C423	1-101-003	0.0047 μ F	+100 -0 %	50 WV	ceramic -----	0.02
◆ C423		-				
C424	1-121-358	220 μ F	+100 -0 %	16 WV	electrolytic -	0.07
◆ C424		-				
C501	1-121-469	10 μ F	+100 -0 %	10 WV	electrolytic -	0.03
C502	1-102-834	390 pF	\pm 10 %	50 WV	ceramic -----	0.02
C503	1-113-124	0.2 μ F	\pm 10 %	150 WV	paper -----	0.09
C504	1-121-246	4.7 μ F	+100 -0 %	160 WV	electrolytic -	0.06
C505	1-113-122	0.05 μ F	\pm 20 %	500 WV	paper -----	0.07
C506	1-121-415	100 μ F	+100 -0 %	16 WV	electrolytic -	0.06
C507	1-121-398	10 μ F	+100 -0 %	25 WV	electrolytic -	0.03
C551	1-121-398	10 μ F	+100 -0 %	25 WV	electrolytic -	0.03

* Mark to be selected.

9/18 (TV-510U Canada and USA Model)

(VR-5-5R)

Ref. No.	Part No.	Description	Unit Price
C552	1-121-421	220 μ F +100 -0 % 16 WV electrolytic -	\$0.08
C553	1-121-402	33 μ F +100 -0 % 10 WV electrolytic -	0.05
C554	1-121-421	220 μ F +100 -0 % 16 WV electrolytic -	0.08
C555	1-121-409	47 μ F +100 -0 % 16 WV electrolytic -	0.04
C556	1-105-717-12	0.022 μ F \pm 10 % 100 WV mylar -----	0.03
C557	1-105-717-12	0.022 μ F \pm 10 % 100 WV mylar -----	0.03
C558	1-127-019	0.1 μ F \pm 20 % 10 WV electrolytic (alox) -----	0.06
C602	1-127-094	1 μ F \pm 20 % 25 WV electrolytic (alox) -----	0.08
C603	1-105-715-12	0.015 μ F \pm 10 % 100 WV mylar -----	0.04
C604	1-105-711-12	0.0068 μ F \pm 10 % 100 WV mylar -----	0.03
C605	1-105-721-12	0.047 μ F \pm 10 % 100 WV mylar -----	0.05
C606	1-121-415	100 μ F +100 -0 % 16 WV electrolytic -	0.06
C607	1-121-396	4.7 μ F +100 -0 % 50 WV electrolytic -	0.04
C608	1-127-091	0.22 μ F \pm 20 % 25 WV electrolytic (alox) -----	0.06
C609	1-105-721-12	0.047 μ F \pm 10 % 100 WV mylar -----	0.05
C610	1-105-717-12	0.022 μ F \pm 10 % 100 WV mylar -----	0.03
C611	1-121-393	3.3 μ F +100 -0 % 50 WV electrolytic -	0.03
C701	1-127-232	4.7 μ F \pm 20 % 25 WV electrolytic (alox) -----	0.16
C702	1-131-116	10 μ F \pm 20 % 16 WV electrolytic -	0.35
C703	1-121-398	10 μ F +100 -0 % 50 WV electrolytic -	0.03
C704	1-127-231	3.3 μ F \pm 20 % 25 WV electrolytic (alox) -----	0.16
C705	1-121-420	220 μ F +100 -0 % 10 WV electrolytic -	0.07
C706	1-121-426	470 μ F +100 -0 % 16 WV electrolytic -	0.12
C707	1-105-727-12	0.15 μ F \pm 10 % 100 WV mylar -----	0.13
C709	1-105-713-12	0.01 μ F \pm 10 % 100 WV mylar -----	0.03
C801	1-105-715-12	0.015 μ F \pm 10 % 100 WV mylar -----	0.04
C802	1-105-723-12	0.068 μ F \pm 10 % 100 WV mylar -----	0.06
C803	1-105-729-12	0.22 μ F \pm 10 % 100 WV mylar -----	0.10
*C804	1-105-721-12	0.047 μ F \pm 10 % 100 WV mylar -----	0.05
*C804	1-105-725-12	0.1 μ F \pm 10 % 100 WV mylar -----	0.07
*C804	1-105-727-12	0.15 μ F \pm 10 % 100 WV mylar -----	0.13
*C804	1-105-729-12	0.22 μ F \pm 10 % 100 WV mylar -----	0.10
C805	1-105-725-12	0.1 μ F \pm 10 % 100 WV mylar -----	0.07

* Mark to be selected.

10/18 (TV-510U Canada and USA Model)

(VR-5-5R)

Ref. No.	Part No.	Description	Unit Price
C806	1-121-421	220 μ F +100 -0 % 16 WV electrolytic -	\$0.08
C807	1-105-292-12	0.055 μ F \pm 10 % 250 WV mylar -----	0.10
C808	1-105-274-12	0.01 μ F+0.005 μ F 200 WV mylar -----	0.12
C809	1-105-753-12	0.01 μ F \pm 10 % 100 WV mylar -----	0.04
C811	1-113-122	0.05 μ F \pm 20 % 500 WV paper -----	0.07
C812	1-113-122	0.05 μ F \pm 20 % 500 WV paper -----	0.07
C813	1-113-122	0.05 μ F \pm 20 % 500 WV paper -----	0.07
C814	1-113-122	0.05 μ F \pm 20 % 500 WV paper -----	0.07
C818	1-101-845	1000 pF +100 -0 % 500 WV ceramic -----	0.02
C819	1-101-455	1000 pF \pm 20 % 50 WV ceramic -----	0.02
C901	1-121-555	4000 μ F +100 -15 % 15 WV electrolytic -	0.38
C902	1-119-106	100 μ F \pm 20 % 16 WV electrolytic -	0.04
C903	1-121-555	4000 μ F +100 -15 % 15 WV electrolytic -	0.38
C904	1-101-003	0.005 μ F +100 -0 % 50 WV ceramic -----	0.02
C905	1-101-003	0.005 μ F +100 -0 % 50 WV ceramic -----	0.02

Resistors

All resistors are \pm 5 %, ERD14T, carbon unless otherwise specified.

R301	1-248-629	15 Ω \pm 10 % ERD14V -----	0.02
◆ R301	1-246-627	12 Ω -----	0.02
R302		-	
◆ R302	1-248-629	15 Ω \pm 10 % ERD14V -----	0.02
R303	1-248-627	12 Ω ERD14V -----	0.02
◆ R303	1-246-649	100 Ω -----	0.02
R304	1-248-649	100 Ω \pm 10 % ERD14V -----	0.02
◆ R304	1-246-669	680 Ω -----	0.02
R305	1-248-659	270 Ω \pm 10 % ERD14V -----	0.02
◆ R305	1-246-705	22 k Ω -----	0.02
R306	1-248-657	220 Ω \pm 10 % ERD14V -----	0.02
◆ R306	1-246-659	270 Ω -----	0.02
R307	1-248-665	470 Ω \pm 10 % ERD14V -----	0.02
◆ R307	1-246-657	220 Ω -----	0.02
R308	1-248-656	200 Ω \pm 10 % ERD14V -----	0.02
◆ R308	1-246-657	220 Ω -----	0.02
R309	1-248-657	220 Ω \pm 10 % ERD14V -----	0.02
◆ R309	1-246-663	390 Ω -----	0.02
R310	1-248-659	270 Ω \pm 10 % ERD14V -----	0.02
◆ R310	1-246-705	22 k Ω -----	0.02

11/18 (TV-510U Canada and USA Model)

(VR-5-5R)

Ref. No.	Part No.	Description	Unit Price
R311	1-248-658	240 Ω $\pm 10\%$ ERD14V -----	\$0.02
◆ R311	1-246-659	270 Ω -----	0.02
R312	1-248-653	150 Ω $\pm 10\%$ ERD14V -----	0.02
◆ R312	1-246-696	9100 Ω -----	0.02
R313	1-248-696	9100 Ω $\pm 10\%$ ERD14V -----	0.02
◆ R313	1-246-675	1200 Ω -----	0.02
R314	1-248-675	1200 Ω $\pm 10\%$ ERD14V -----	0.02
◆ R314	1-246-651	120 Ω -----	0.02
R315	1-248-651	120 Ω $\pm 10\%$ ERD14V -----	0.02
◆ R315	1-246-659	270 Ω -----	0.02
R316	1-246-653	150 Ω -----	0.02
◆ R316	1-246-646	75 Ω -----	0.02
R317	1-248-646	75 Ω $\pm 10\%$ ERD14V -----	0.02
◆ R317	1-246-680	2 k Ω -----	0.02
R318	1-248-680	2 k Ω $\pm 10\%$ ERD14V -----	0.02
◆ R318	1-246-655	180 Ω -----	0.02
R319	1-248-655	180 Ω $\pm 10\%$ ERD14V -----	0.02
◆ R319	1-246-690	5100 Ω -----	0.02
R320	1-248-690	5100 Ω $\pm 10\%$ ERD14V -----	0.02
◆ R320	1-246-682	2400 Ω -----	0.02
R321	1-248-681	2200 Ω $\pm 10\%$ ERD14V -----	0.02
◆ R321	1-246-671	820 Ω -----	0.02
R322	1-248-671	820 Ω $\pm 10\%$ ERD14V -----	0.02
◆ R322	1-244-634	24 Ω RD1/4CH -----	0.02
R323	1-248-687	3900 Ω $\pm 10\%$ ERD14V -----	0.02
◆ R323	1-246-660	300 Ω $\pm 10\%$ -----	0.02
R324	1-248-665	470 Ω ERD14V -----	0.02
◆ R324	1-246-668	620 Ω -----	0.02
R325	1-246-677	1500 Ω -----	0.02
*R326	1-248-706	24 k Ω ERD14V -----	0.02
*R326	1-248-707	27 k Ω ERD14V -----	0.02
*R326	1-248-708	30 k Ω ERD14V -----	0.02
*R326	1-248-710	36 k Ω ERD14V -----	0.02
*R326	1-248-711	39 k Ω ERD14V -----	0.02
*R326	1-248-712	43 k Ω ERD14V -----	0.02
*R326	1-248-713	47 k Ω ERD14V -----	0.02
*R326	1-248-714	51 k Ω ERD14V -----	0.02
*R326	1-248-715	56 k Ω ERD14V -----	0.02
◆ R326	1-246-666	510 Ω -----	0.02
R327	1-248-700	13 k Ω ERD14V -----	0.02
◆ *R327	1-246-706	24 k Ω -----	0.02
◆ *R327	1-246-707	27 k Ω -----	0.02

* Mark to be selected.

12/18 (TV-510U Canada and USA Model)

(VR-5-5R)

Ref. No.	Part No.	Description	Unit Price
◆ *R327	1-246-708	30 kΩ -----	\$0.02
◆ *R327	1-246-709	33 kΩ -----	0.02
◆ *R327	1-246-710	36 kΩ -----	0.02
◆ *R327	1-246-711	39 kΩ -----	0.02
◆ *R327	1-246-712	43 kΩ -----	0.02
◆ *R327	1-246-713	47 kΩ -----	0.02
◆ *R327	1-246-714	51 kΩ -----	0.02
◆ *R327	1-246-715	56 kΩ -----	0.02
◆ R328	1-248-655	180 Ω +10 % ERD14V -----	0.02
◆ R328	1-246-700	13 kΩ -----	0.02
◆ R329	1-248-665	470 Ω +10 % ERD14V -----	0.02
◆ R329	1-246-666	510 Ω -----	0.02
◆ R330	1-248-683	2700 Ω ERD14V -----	0.02
◆ R330	1-248-655	180 Ω ERD14V -----	0.02
◆ R331	1-248-671	820 Ω +10 % ERD14V -----	0.02
◆ R331	1-248-657	220 Ω ERD14V -----	0.02
◆ R332	1-248-657	220 Ω ERD14V -----	0.02
◆ R332	1-246-657	220 Ω -----	0.02
◆ *R333	1-248-703	18 kΩ ERD14V -----	0.02
◆ *R333	1-248-704	20 kΩ ERD14V -----	0.02
◆ *R333	1-248-705	22 kΩ ERD14V -----	0.02
◆ *R333	1-248-706	24 kΩ ERD14V -----	0.02
◆ *R333	1-246-701	15 kΩ -----	0.02
◆ *R333	1-246-702	16 kΩ -----	0.02
◆ *R333	1-246-703	18 kΩ -----	0.02
◆ *R333	1-246-704	20 kΩ -----	0.02
◆ *R333	1-246-705	22 kΩ -----	0.02
◆ *R333	1-246-706	24 kΩ -----	0.02
◆ R334	1-248-666	510 Ω ERD14V -----	0.02
◆ R334	1-246-680	2700 Ω -----	0.02
◆ R335	1-248-666	510 Ω ERD14V -----	0.02
◆ R335	1-246-671	820 Ω -----	0.02
◆ R336		-	
◆ R336	1-246-679	1800 Ω -----	0.02
◆ R401	1-248-657	220 Ω ERD14V -----	0.02
◆ R401	1-246-646	75 Ω -----	0.02
◆ R402	1-248-664	430 Ω ERD14V -----	0.02
◆ R402	1-246-664	430 Ω -----	0.02
◆ R403	1-248-706	24 kΩ +10 % ERD14V -----	0.02
◆ R403	1-246-661	330 Ω -----	0.02
◆ R404	1-248-686	3600 Ω +10 % ERD14V -----	0.02
◆ R404	1-246-649	100 Ω -----	0.02

* Mark to be selected.

13/18 (TV-510U Canada and USA Model)

(VR-5-5R)

Ref. No.	Part No.	Description	Unit Price
R405	1-248-673	1 kΩ ±10 % ERD14V -----	\$0.02
◆ R405	1-246-687	3900 Ω -----	0.02
R406	1-248-649	100 Ω ±10 % ERD14V -----	0.02
◆ R406	1-248-715	56 kΩ -----	0.02
*R407	1-203-892	3600 Ω RD1/16L -----	0.02
*R407	1-203-497	3900 Ω RD1/16L -----	0.02
*R407	1-203-185	4700 Ω RD1/16L -----	0.02
*R407	1-204-345	5100 Ω RD1/16L -----	0.02
*R407	1-203-186	5600 Ω RD1/16L -----	0.02
*R407	1-203-187	6800 Ω RD1/16L -----	0.02
*R407	1-203-189	8200 Ω RD1/16L -----	0.02
*R407	1-203-190	10 kΩ RD1/16L -----	0.02
◆ R407	1-246-673	1 kΩ -----	0.02
R408	1-248-694	7500 Ω ±10 % ERD14V -----	0.02
◆ R408		-	
R409	1-248-685	3300 Ω ±10 % ERD14V -----	0.02
◆ R409	1-248-632	20 Ω ERD14V -----	0.02
R410	1-248-670	750 Ω ±10 % ERD14V -----	0.02
◆ R410		-	
R411	1-248-673	1 kΩ ±10 % ERD14V -----	0.02
◆ R411		-	
R412	1-204-345	5100 Ω RD1/16L -----	0.02
◆ R412		-	
R413	1-248-649	100 Ω ±10 % ERD14V -----	0.02
◆ R413		-	
R414	1-248-675	1200 Ω ERD14V -----	0.02
◆ R414		-	
R415	1-248-675	1200 Ω ERD14V -----	0.02
◆ R415		-	
R416	1-248-685	3300 Ω ERD14V -----	0.02
◆ R416		-	
R417	1-248-685	3300 Ω ERD14V -----	0.02
◆ R417		-	
R418	1-248-641	47 Ω ±10 % ERD14V -----	0.02
◆ R418		-	
R419	1-248-715	56 kΩ ±10 % ERD14V -----	0.02
◆ R419		-	
R420	1-248-673	1 kΩ ±10 % ERD14V -----	0.02
◆ R420		-	
R501	1-246-697	10 kΩ -----	0.02
*R502	1-246-712	43 kΩ -----	0.02

* Mark to be selected.

14/18 (TV-510U Canada and USA Model)

(VR-5-5R)

<u>Ref.</u> <u>No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Unit</u> <u>Price</u>
*R502	1-246-713	47 k Ω -----	\$0.02
*R502	1-246-714	51 k Ω -----	0.02
*R502	1-246-715	56 k Ω -----	0.02
*R502	1-246-716	62 k Ω -----	0.02
*R502	1-246-717	68 k Ω -----	0.02
R503	1-246-651	120 Ω -----	0.02
R504	1-246-690	5100 Ω -----	0.02
R506	1-246-725	150 k Ω -----	0.02
R507	1-246-679	1800 Ω -----	0.02
R509	1-246-714	51 k Ω -----	0.02
R551	1-246-697	10 k Ω -----	0.02
R552	1-246-697	10 k Ω -----	0.02
R553	1-246-679	1800 Ω -----	0.02
R554	1-246-612	3 Ω -----	0.02
R555	1-246-673	6800 Ω -----	0.02
R556	1-246-675	1200 Ω -----	0.02
R557	1-246-641	47 Ω -----	0.02
R558	1-246-655	180 Ω -----	0.02
R559	1-246-659	270 Ω -----	0.02
R560	1-246-675	1200 Ω -----	0.02
R561	1-246-612	3 Ω -----	0.02
R562	1-246-618	5.1 Ω -----	0.02
R563	1-246-631	18 Ω -----	0.02
R564	1-246-655	180 Ω -----	0.02
R601	1-246-642	51 Ω -----	0.02
R602	1-246-656	200 Ω -----	0.02
R603	1-246-697	10 k Ω -----	0.02
R604	1-246-718	100 k Ω -----	0.02
R605	1-246-669	680 Ω -----	0.02
R606	1-246-647	82 Ω -----	0.02
R607	1-246-688	4300 Ω -----	0.02
R608	1-246-685	3300 Ω -----	0.02
R609	1-250-873	1 k Ω RD12T -----	0.02
R610	1-246-677	1500 Ω -----	0.02
R611	1-246-694	7500 Ω -----	0.02
R613	1-246-667	560 Ω -----	0.02
R614	1-246-662	360 Ω -----	0.02
R615	1-246-664	430 Ω -----	0.02
R616	1-246-684	3 k Ω -----	0.02
R617	1-246-680	2 k Ω -----	0.02

* Mark to be selected.

15/18 (TV-510U Canada and USA Model)

(VR-5-5R)

<u>Ref.</u> <u>No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Unit</u> <u>Price</u>
R701	1-246-663	390 Ω -----	\$0.02
R702	1-246-688	4300 Ω -----	0.02
R703	1-246-677	1500 Ω -----	0.02
R704	1-246-629	15 Ω -----	0.02
R705	1-246-688	4300 Ω -----	0.02
R706	1-246-688	4300 Ω -----	0.02
R707	1-246-696	9100 Ω -----	0.02
R708	1-246-680	2 k Ω -----	0.02
R709	1-246-680	2 k Ω -----	0.02
R710	1-246-695	8200 Ω -----	0.02
*R711	1-246-678	1600 Ω -----	0.02
*R711	1-246-679	1800 Ω -----	0.02
*R711	1-246-680	2 k Ω -----	0.02
*R711	1-246-681	2200 Ω -----	0.02
R712	1-246-660	300 Ω -----	0.02
R713	1-207-018	3 Ω RW1/4RL wire wound -----	0.01
R714	1-207-018	3 Ω RW1/4RL wire wound -----	0.01
R715	1-246-656	200 Ω -----	0.02
R716	1-246-702	15 k Ω -----	0.02
R801	1-246-673	1 k Ω -----	0.02
R803	1-246-649	100 Ω -----	0.02
R804	1-246-662	360 Ω -----	0.02
R806	1-246-697	10 k Ω -----	0.02
R807	1-246-691	5600 Ω -----	0.02
R808	1-246-694	7500 Ω -----	0.02
R811	1-202-621	100 k Ω ± 10 % RC1/2, composition ----	0.02
R812	1-202-621	100 k Ω ± 10 % RC1/2, composition ----	0.02
R813	1-202-649	1.5 M Ω ± 10 % RC1/2, composition ----	0.02
R814	1-246-732	300 k Ω -----	0.02
R901	1-201-676	750 k Ω ± 10 % RC1/2L, composition ---	0.02
R902	1-206-056	120 Ω ± 10 % 2 W, metal oxide -----	0.04

* Mark to be selected.

<u>Ref.</u> <u>No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Unit</u> <u>Price</u>
VR301	1-221-998	500 Ω -B, adjustable (AGC) -----	\$0.14
VR301	1-222-805	470 Ω -B, adjustable (AGC) -----	0.12
VR501	1-222-335	250 k Ω -B, variable (Brightness) -----	0.11
VR502	1-222-337	3 k Ω -C, variable (Contrast) -----	0.13
VR551	1-222-340	5 k Ω -D, variable (with SW) (Volume) -----	0.33
VR601	1-222-184	1 k Ω -B, variable (Hor. Hold) -----	0.14
VR701	1-222-336	2 k Ω -B, variable (Ver. Hold) -----	0.13
VR702	1-221-349	5 k Ω -B, adjustable (Ver. Linearity) -----	0.09
VR703	1-221-349	5 k Ω -B, adjustable (Ver. Height) -----	0.09
VR801	1-221-351	600 k Ω -B, adjustable (Focus) -----	0.08
<u>Miscellaneous</u>			
DET	1-425-518	Detector Block -----	0.13
DET	1-425-636	Detector Block -----	0.15
DY	1-451-003-09	Deflection Yoke Ass'y -----	1.75
F901	1-532-118-12	Fuse, 1.6 A -----	0.06
	1-501-118-11	Telescopic Antenna -----	0.92
	1-502-100	Speaker -----	0.52
	1-506-108	SV-pin -----	0.01
	1-507-166	Jack, external antenna -----	0.16
	1-507-174-33	Jack, earphone, twin -----	0.10
	1-507-901-12	Jack Nut -----	0.01
	1-508-156-41	Power Plug with Switch -----	0.24
	1-526-084-21	Socket, picture tube -----	0.37
	1-536-107	Lug Terminal Board, 1-1 P -----	0.01
	1-417-019-32	U-V Separator Ass'y -----	0.62
	1-534-379-41	Output Cable, IF -----	0.13
	8-731-105-10	Picture Tube (140CB4) -----	8.03

17/18 (TV-510U Canada and USA Model)

(VR-5-5R)

<u>Part No.</u>	<u>Description</u>	<u>Unit Price</u>
IV. <u>CARTON & ACCESSORIES</u>		
4-014-747-01	Packing Carton -----	\$0.19
4-014-749	Cushion -----	0.10
4-014-750	Polyethylene Bag, cabinet -----	0.09
3-813-651	Color Label -----	0.01
X-44910-02-1	Warranty Card Ass'y -----	0.08
X-40147-11-1	Card Ass'y -----	0.06
X-44900-03	Polishing Cloth in Polyethylene Bag -----	0.03
4-495-257-11	Instruction Manual -----	0.08
4-490-014-10	Service Station List -----	0.03
4-002-839	IBM Card -----	0.01
1-504-034-22	Earphone (ME-20A) -----	0.14
1-534-519-17	Cord, power supply -----	0.38

SONY CORPORATION

COMPLETE SPARE PARTS LIST FOR BP-21

OCTOBER, 1971

<u>Part No.</u>	<u>Description</u>	<u>Unit Price</u>
X-20411-03	Terminal Board Ass'y, left -----	\$0.10
X-20411-04	Terminal Board Ass'y, right -----	0.10
X-20765-01	Battery Case Ass'y, upper -----	0.57
X-20765-02	Battery Case Ass'y, lower -----	0.52
Y-44014-32-1	VCP-1W -----	0.93
1-534-439-62	Cord, 4 P power supply -----	0.21
2-076-511-01	Screw, mounting case -----	0.14
2-076-512	Nameplate -----	0.07
2-076-513	Special Screw -----	0.07
2-076-514-01	Packing Carton -----	0.12
2-076-515	Master Carton -----	0.19
2-076-516	Polyethylene Bag -----	0.05
2-076-517	Cushion -----	0.05
2-076-518	Instruction Label -----	0.02
3-790-913-11	Instruction Manual -----	0.02
3-793-183	Inspection Tag -----	0.01
7-624-108-01	Retainer, E-4 -----	0.50/100
7-633-110-41	Clamp, power supply cord -----	0.05